CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 15, 1910.

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Electric Railways.

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Light and power plant, Jacksonville, Fla.
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Bridges.

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Buildings.

Apartments, New York, N. Y.
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Water plant, Denver, Colo.
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Sewers, Buffalo. N. Y.
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Streets and Roads.

State roads, Ohio.
Streets, Huntington, W. Va.
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Manufacturing Plants.

Factory, Pittsfield, Mass.
Automobile plant, Detroit, Mich.
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Miscellaneous.

Barge Canal, Albany, N. Y.
Subway system, New York, N. Y.
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RAILWAYS.

(**Denotes that this work is advertised in Engineering News.*)

ATCHISON, TOPEKA & SANTA FE RY.—This road is seeking an entrance to Waco, and the tracks of either the Missouri, Kansas & Texas or the Cotton Belt may be used. Neither of these roads, however, are desirous of permitting the Santa Fe to enter Waco, and it is possible that a new line may be built. It was negotiating for the purchase of the Texas Central R. R. at the time that line passed into the hands of the Missouri, Kansas & Texas recently. Had it succeeded in accomplishing that transaction it would not only have obtained an entrance to Waco, but a direct connection would have been secured with its system in the Western part of the state.

BALTIMORE & OHIO R. R.—A contract has been awarded to the EYRE-SHOEMAKER CONSTRUCTION CO., Philadelphia, Pa., to build about nine miles of spur track to various mines in West Virginia. A. M. Kinsman, Baltimore, Md., is Ch. Engr.

BANGOR & AROSTOOK R. R.—Engineers are at work surveying a new line about 125 miles long through northern Maine. This will extend from West Seboois through Piscataquis and Aroostook counties. It will follow the Allagash River to Fort Kent, where the present line will be joined. The county is entirely undeveloped and is a favorite resort of hunters and fishermen. It is stated that the surveys are only being made to furnish a basis of securing the capital. Adverse legislation has had much to do with the retarded development. M. Burpee, Houlton, Me., is Ch. Engr.

BONHOMIE SOUTHWESTERN R. R. CO.—Gov. Noel, of Mississippi, has issued a proclamation authorizing the organization of the Bonhomie Southwestern R. R. Co. The promoters of this new road are W. S. F. Tatum, W. O. Tatum and S. E. Travis, all of Hattiesburg. The road will run from Hattiesburg to Columbia, a distance of about thirty miles. The Tatums have large timber interests in Forres and Marion counties, and the road will be constructed, primarily, to haul the timber.

BUFFALO CREEK & GAULEY R. R.—Contracts have been let for an extension of nine miles from Rock Camp to Rich Run, W. Va. O. P. KEELEY & CO. Elkins, W. Va., have the contract for six miles, and DUFFIELD & REED, Charleston, W. Va., for three miles. Five bridges, from 40 to 100 ft. long, will be erected in the nine miles, all having stone abutments and a temporary wooden superstructure to be replaced later by steel. Guy Bray, Clay, W. Va., is Ch. Engr.

CANADIAN PACIFIC.—The purchase of the Dominion Atlantic by the Canadian Pacific probably will be completed this year. The Dominion Atlantic at present is operating a single track railroad from Yarmouth, N. S., to Windsor Junction, N. S., about 200 miles, with a branch connecting Windsor and Truro. From Windsor Junction the Dominion Atlantic runs into Halifax over the Intercolonial. It is probable that the Canadian Pacific will construct additional lines, besides doing much repair work on the present road and bridges. The Dominion Atlantic operates various small steamship lines. The principal one connecting Yarmouth and Boston, Mass., 240 miles apart, where a daily service is maintained during the summer. P. Gifkins is Gen. Mgr. of the Dominion Atlantic at Kentville, N. S.

COLORADO & SOUTHERN RY.—President Dirius Miller, of the Burlington and the Colorado & Southern, says relative to the purchase of bonds of the Colorado & Southern Ry. "Of the $3,000,000 bond purchase, $2,593,000 have been issued to reimburse the company for advances and expenditures heretofore made for construction and improvements on the lines subject to the refunding and extension mortgage. The proceeds of the bonds will be used in payment for additional improvements, purchases of new equipment and the general betterment of the lines. There is a plan under way to construct a new line or an extension from Southern Junction, Pueblo County, Colo., to Weisenburg Junction, Huerfano County, Colo., which will be 49 miles, and from Wellington, Colo., north to Cheyenne, Wyo., which will be approximately 32 miles. These new lines will give the Colorado & Southern an unbroken line from Orange Junction, Wyo., to Ft. Worth, Tex. It will connect at Orange Junction with the Chicago & Northwestern, and when the extensions now under way have been completed the two systems will connect at five different points in Colorado and Wyoming." H. M. Cowan, Denver, Colo., is Ch. Engr.

DELAWARE, LACKAWANNA & WESTERN R. R.—A third track from Harrison to the Hackensack River is being built by company forces. G. J. Ray, Hoboken, N. J., is Ch. Engr.

DENVER, NORTHWESTERN & PACIFIC.—We are informed that it is the intention to push the extension of this line from its present terminal at Steamboat Springs, Colo., to Salt Lake City, completing a new route between Denver and Salt Lake City. It is the intention also to undertake the construction of the summit tunnel as soon as possible, thus eliminating the steep grades and high elevation of the present open summit. W. A. Beerbower, Denver, Colo., is Gen. Supt. (with duties of Ch. Engr. also).

DOMINION ATLANTIC.—See Canadian Pacific.

GEORGIA.—A link connecting the Chattanooga Southern R. R. and the Rome & Northern R. R. Co. in the north western part of the state is contemplated. This line will extend from Gore, in Chattanooga County, to Bronco, in Walker County, by the way of Trion. E. C. Osborn, 111 Broadway, New York is Receiver of the Chattanooga Southern, and H. M. Smith, Rome, Ga., is Ch. Engr. the Rome & Northern.

LEHIGH VALLEY R. R.—The new low grade lines and branches to the mines in the anthracite region will be in operation inside of a year, it is reported. The Buck Mountain branch will extend from Hazle Creek Junction to Lumber Yard, 4.85 miles. Connecting with this line at a point near Lumber Yard the Hays Creek branch will extend to a junction with the main line near Hays Creek, in Carbon County, Pa. Under present conditions the heavy westbound coal traffic. from the Mahanoy and Hazleton division moves down 786 ft. then rises 361 ft. When the new route is opened there will be a steady down grade of 425 ft. drop. E. B. Ashby, 143 Liberty St., New York, is Ch. Engr.

NEW PARK & FAWN GROVE R. R.—A charter has been granted to the New Park & Fawn Grove R. R., of York County, the line of which will extend to the property of Edward James, near the Maryland line, about five miles. The capital is $90,000. Jno. H. Anderson, New Park, Pa., is Pres. It is the ultimate purpose of the company to connect with the Maryland & Pennsylvania R. R. at a point south of Delta, Md.

NEW YORK CENTRAL & HUDSON RIVEA R. R.—The company has recently completed the purchase of the entire block bounded by 32d and 33d Sts. and 10th and 11th Aves., just back of new Pennsylvania R. R. terminal, as a site for a building to cost about $500,000 to house the Adams and American Express companies, now located in the Grand Central terminal on Madison Ave. The cost of the real estate was about $1,000,000.

NEW YORK, ONTARIO & WESTERN RY.—The contract for grading 11 miles of additional double track between Pleasant Mount and Winwood has been let to the McDONALD CONSTRUCTION CO., Scranton, Pa. About $200,000 is involved. C. E. Knickerbocker is Eng. M. of W., Middletown, N. Y.

OREGON.—GRANT'S PASS & WESTERN R. R. CO.—J. P. O'Brien, C. G. Sutherland and James G. Wilson, all Harriman railroad officials, filed articles of incorporation Aug. 25 with the County Clerk for the Grant's Pass & Western R. R. Co. The object of the new incorporation is the construction and operation of a railroad from a point connecting with the Oregon & California R. R. at or near Grant's Pass in a general southwesterly direction to Crescent City, Cal. This move by the vice-president and general manager of the Harriman system of the Northwest reveals the motive of a recent automobile tour over the rugged coast range from Grant's Pass to Crescent City. J. P. O'Brien, Vice-Pres. and Gen. Mgr. of the Oregon R. R. & Navigation Co., and moving spirit, as far as the Harriman lines are concerned, has repeatedly denied that the Harriman interests were going to invade this territory.

SAN PEDRO, LOS ANGELES & SALT LAKE R. R.—Press reports are to the effect that contracts have been given to the UTAH CONSTRUCTION CO. and to SHATTUCK & EDINGER for reconstructing and relocating 60 miles of line between Guelph, Nev., and Crestline. These contracts involve about $6,000,000. E. G. Tilton, Los Angeles, Cal., is Ch. Engr.

VERMONT.—A new railroad is being surveyed from Montpelier to Rutland. The proposed line will follow the south side of the Winooski River from Montpelier to Middlesex, then through Moretown, Waitsfield, Warren, Granville, Hancock, Stockbridge, Pittsfield and Mendon to Rutland, about 70 miles long. The Harrison Engineering Co., 42 East 23d St., New York City, N. Y., is making the surveys. Fred. Blanchard, Montpelier, Vt., is interested in the project.

ELECTRIC RAILWAYS.

BUFFALO, N. Y.—The Frontier Electric R. R. Co., which proposes to build a double track electric railway from Buffalo to Niagara Falls, largely upon right-of-way purchased from the Buffalo, Thousand Islands & Portland R. R., which has abandoned its intention of building a steam road between these points, has reached an agreement with the city authorities of Tonawanda and North Tonawanda by which a franchise through those cities will be granted.

WESTPORT, N. Y.—Actual work has commenced on the grading of the Westport & Elizabethtown Trolley Road and it is expected that this eight-mile line will be in operation about the first of the year.

PHILADELPHIA, PA.—The Philadelphia & Western R. R. Co., the third-rail electric system operating between Philadelphia and Strafford, Pa., is contemplating an extension to connect with the Lehigh Valley Transit Co. A franchise has been granted by the Borough of Norristown, Pa., for a line through that city. Most of the distance the line will run over private right-of-way. The control of this system was recently acquired by Edw. B. Smith & Co., 27 Pine St., New York City.

TOLEDO, OHIO.—Capitalists in Toledo, Ohio, and Jackson, Mich., are considering the construction of an interurban line between these two cities. The line as planned will run from Toledo to Tecumseh, then to Sand Lake and Jackson. T. B. Brown, Toledo, Ohio, is interested.

PALATINE, ILL.—The contract for grading of the Waukegan, Rockford & Elgin Traction Co. has been awarded to P. W. RYAN, Janesville, Ill. This includes the work between Palatine and Waucanda, about 12 miles of line. It will involve approximately $300,000.

MINNEAPOLIS, MINN.—The City Council has been petitioned by the Electric Short Line Co. to cross certain streets in the city. The road will operate otherwise over private right-of-way, owned by the company. It is announced that this company contemplates the building of a line about 80 miles long through Hennepin, Carver, Macleod, Meeker and Kandiyohi Counties. E. D. Luce, Minneapolis, is Pres.

GLENDORA, CAL.—The City Council passed an ordinance Aug. 25 granting to E. D. Goode and his assigns the right to construct, maintain and operate, for a period of 47 years, an electric railway, over certain streets in city of Glendale. G. B. Woodberry is City Clk.

LOS ANGELES, CAL.—H. E. Huntington, of this city, will probably construct an electric line to connect Redondo Beach with San Pedro. Engineers are now in field surveying a prospective right-of-way for an electric line along cliffs overshadowing Point Vicente and Point Fermin.

LIGHT AND POWER PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

SKOWHEGAN, ME.—A plan has been submitted to the Board of Trade, outlining the construction of a large water plant here. Address the Secretary of the Board.

HAVERHILL, MASS.—The Haverhill Gas Light Co. has decided to construct a larger holder, having a storage capacity of 1,000,000 cu. ft., and also a generating house which will be equipped with new apparatus. Estimated cost, $250,000. P. J. Nevins is Gen. Mgr.

WESTFIELD, MASS.—Bids were received on Aug. 31 for additions and improvements to the municipal gas and electric light works to include the erection of a new building and an addition to the old installation of machinery, to include exhauster, condenser and a scrubber. The contract has been awarded to EDWARD M. HUMPHREVILLE for $6,190. Noted on Sept. 1.

NEW BRITAIN, CONN.—The New Britain Gas Light Co. is preparing to extend the gas mains to Maple Hill. H. M. Belle is Supt.

NEW HAVEN, CONN.—The Winchester Repeating Arms Co. has had plans prepared for the construction of a large power plant. The building will be of concrete and steel, 70 × 135 ft., 30 ft. high. Estimated cost, $50,000.

HUDSON, N. Y.—Bids will be received by Charles H. Strong, Pres. Bd. Mgrs., New York State Training School for Girls, Hudson, until Oct. 1, for power-house equipment, etc. Franklin B. Ware is State Arch., Albany.

TROY, N. Y.—Specifications for lighting the city with electricity and gas for a period of five years from Oct. 1, 1910, have been prepared by Edwin L. Grimes, City Engr.

NEW YORK, N. Y.—The following bids were received on Sept. 6 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electric equipment in addition to and alteration in Erasmus High School on the easterly side of Flatbush Ave., about 205 ft. north of Grant St., Boro. of Brooklyn: New York Construction Co., $29,440; Peet & Power, $28,888; Commercial Construction Co., $28,549. Also, for installing electric equipment in new Public School No. 44 on the southwest corner of Prospect Ave. and 176th St., Boro. of The Bronx: George H. Pride, $9,810; Cowkden & De Young, $9,733; New York Construction Co., $9,870; T. Fred. Jackson, Inc., $9,698.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 3 p. m., Sept. 26, for repairs, alterations and additions to the electric equipment in Public School No 30, Wolcott St., near Conover St., and Public School No. 40, 16th St., near Fourth Ave., Boro. of Brooklyn.

PERTH AMBOY, N. J.—The Public Service Corporation of New Jersey will construct a power-house at Buckingham Ave. and Hartford St. Plans have been prepared and approved. Estimated cost, $500,000. J. T. Whittlesey is Ch. Engr., Newark.

PHILADELPHIA, PA.—The Rapid Transit Co. will install additional machinery in the plant at 33d and Market Sts. Estimated cost, $300,000. A. B. Stitzer is Elec. Engr.

BALTIMORE, MD.—The Board of Awards has awarded contract to F. DECKER & SON, 1209 East Biddle St., Baltimore, at $24,900 for constructing the power-house at Bayview Asylum, one story, brick and stone. Noted on Sept. 1. Contract for engines and generators has been awarded at $23,722 to KINGSBURY-SAMUEL ELECTRIC CO., 213 North Calvert St., Baltimore. Parker, Thomas & Rice are Archs., 1109 Union Trust Bldg., Baltimore.

BALTIMORE, MD.—IRWIN & LEIGHTON, Franklin Bldg., Philadelphia, Pa., have been awarded the contract for the erection of the proposed power plant and shops at Orangeville, Baltimore County, Md., for the Pennsylvania R. R. Co., from plans by W. H. Cookman, Philadelphia, Pa. The building will be two stories, 28 × 70 ft., of brick, with slag roof, plumbing, concrete flooring.

ANNAPOLIS, MD.—Bids were received as follows on Sept. 10, by the Bureau of Yards and Docks, Navy Dept., Washington, for additions to the power plant and distributing systems at the U. S. Naval Hospital, Annapolis, Md.: Evans, Almirall & Co., 281 Water St., New York, $23,242; John W. Danforth Co., Colorado Bldg., Washington, $19,787; Moel Construction Co., Fidelity Bldg., Baltimore, $19,200; D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, $24,137.

WASHINGTON, D. C.—The Catholic University of America will erect a new power-house and engineers' school on Michigan Ave., near Brookland Ave., Brookland. Estimated cost, $50,000. P. H. Pool is Arch., 560 Laurens St., Baltimore, Md.

WHEELING, W. VA.—An ordinance granting the Wheeling Electrical Co. permission to erect and maintain a plant for manufacturing current and all necessary appliances has been signed by the Mayor. Work will be started on the plant during the fall. It is the purpose of the company to sink a well and lay an intake pipe to the river for water supply before winter. J. B. Garden is Gen. Mgr.

The Wheeling Traction Co. has awarded a contract to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, for one 1,875-KYA. low-pressure turbo-generator, 2,300-volt, 3-phase, and two 500-KW. motor generator sets, 600 volts D. C., and all necessary switchboard panels and instruments.

ALTO, GA.—The State Tuberculosis Sanatorium will erect a power-house, 18 × 24 ft., of brick, with metal roof. Bids will be received until Sept. 30; W. G. Raoul is Chn. Executive Com., 708 Gould Bldg., Atlanta, Ga.

MONTEZUMA, GA.—A large electric plant will be constructed on the western side of the river to generate power for the trolley line from Montezuma to Reynolds via Miona Springs, furnish power for manufacturing plants in this and other towns, and light for such towns as have no local plant.

JACKSONVILLE, FLA.—The Board of Bond Trustees is considering tentative plans for constructing an electric light and power station. The Scofield Engineering Co., Philadelphia, Pa., has estimated the cost, including construction and removal of machinery from old plant to proposed structure, at $370,000.

LEEDS, ALA.—Col. A. B. Cobb, of Anniston, Ala., is interested in the construction of an electric light plant at Leeds.

TROY, ALA.—This city proposes to purchase two additional 250-KW. or 300-KW., 2,300-volt, 60-cycle, 3-phase generators and engines and two 150-HP. return tubular boilers, 150 lb. gage pressure; also one 7-panel distributing switchboard for single-phase distribution from 3-phase generators, each panel to have 50 amperes. A. B. Campbell is Supt.

MONTGOMERY, ALA.—The Montgomery Traction Co. expects to purchase turbines and other equipment for its power plant in Montgomery. W. J. Glunivan is Pur. Agt.

SHREVEPORT, LA.—The City Council and the Chamber of Commerce have decided to install a municipal-owned natural gas system for Shreveport, and have selected an engineer to prepare the route for the pipe line to the Caddo field. The cost of proposed plant is about $100,000. George R. Wilson is City Engr.

JACKSON, OHIO.—Bids will be received by the Trustees of Public Affairs until Sept. 29, for furnishing material and enlarging and improving municipal electric light plant. W. A. Dallas is Clerk.

SANDUSKY, OHIO.—The Sandusky Gas & Electric Co. has submitted the only bid for the local street lighting franchise which it now holds and which expires on Jan. 1, 1912.

COLUMBUS, OHIO.—An ordinance has been introduced in the City Council for enlarging, extending and improving the municipal lighting plant. It is proposed to increase the facilities of the plant in order to sell power to private users as well as to care for all the city's lighting. H. Holton is Chn. of Light Com.

PERU, IND.—See item under Buildings.

BATESVILLE, IND.—The Batesville Electric Light & Power Co., recently incorporated, will soon ask for bids to construct and equip a light and power plant. J. A. Hillenbrand is Pres.

INDIANAPOLIS, IND.—Plans for the new power-house to be erected on West Tenth St. by the Terre Haute, Indianapolis & Eastern Traction Co. have been approved. The BEDFORD STONE & CONSTRUCTION CO., 814 Traction Terminal Bldg., Indianapolis, has the general contract. The power-house will be in two sections, one of which will be 160 × 94 ft. and 84 ft. high. The second section will be 193 × 121 ft., 77 ft. high. The smokestack will be 18 ft. in diameter and 275 ft. high. The plant will be equipped with automatic stokers for the prevention of smoke. Estimated cost, $280,000. H. J. McGowan is Pres., Indianapolis.

CAMBRIDGE CITY, IND.—Paul H. White, of Indianapolis, has been appointed by the Town Trustees as Supervising Engineer of the city electric light plant and he will prepare plans and specifications for proposed improvements. Noted on Sept. 1.

MARION, IND.—The City Council has purchased a site, it is stated, for a municipal street lighting plant, and will soon take steps to construct same. Otis Weesner is Supt.

DETROIT, MICH.—The Lighting Commission, F. T. Bowler, Secy., 40 Atwater St., is taking figures on a $20,000 addition to the present boiler house. Building to be of brick and fireproof. Smith, Hinchman & Grylls are Archs., 710 Washington Arcade.

MUSKEGON, MICH.—We are officially advised that Grossmann & Broskauer, Engrs., Old Colony Bldg., Chicago, Ill., have submitted preliminary reports and costs, estimates, etc., for the 12,000-HP. hydroelectric power plant, to be constructed here. There will be two dams and other improvements to cost about $1,000,000. Incorrectly noted on Sept. 1, as "Grossmann and Beoskauser."

KANKAKEE, ILL.—The Kankakee Gas & Electric Co. has been incorporated to operate a light, heat and power plant. Capital, $10,000. Harry B. Hurd, C. W. Hambling and P. A. Neuffer ore the incorporators.

CHICAGO, ILL.—Holabird & Roche, 98 Jackson Boulevard, are about to award contracts for a $1,500,000 power generating plant at California Ave., Roscoe St. and the Chicago River for the Commonwealth Edison Co. Sargent & Lundy, 9 Jackson Boulevard ,are Engrs. It will be of reinforced concrete, steel, brick and stone construction.

CRANDON, WIS.—The following bids have been received for the construction of an electric light plant here: Central Construction Co., Oshkosh, Wis., $12,450; W. D. Lovell, Minneapolis, $15,580; Martin & Wigman, Green Bay, Wis., Section B, $4,400; LANGSTAD MEYER CONSTRUCTION & SUPPLY CO., Appleton, Wis., $12,500 (awarded contract); Julius Andrae Sons Co., Milwaukee, Sections B and C, $10,850; Fort Wayne Electric Co., Sections B and C, $12,200.

RACINE, WIS.—Brill & Gardner, Engrs., 204 Dearborn St., Chicago, Ill., have awarded the general contract to PAUL RIESEN & SON, Milwaukee, Wis., for a power plant for the Lewis & Mitchell Motor Co., Racine, Wis.

WAUSAU, WIS.—The contract for the electrical equipment to be used in the Forest Service ground-wood laboratory at Wausau has been awarded to the CROCKER-WHEELER CO., Ampere, N. J., at $18,870.

ELDORA, IOWA.—The Park Dam Co., of Eldora has been formed to construct a concrete dam across the Iowa River and furnish electricity. E. H. Lundy and George F. Wood, both of Eldora, are interested.

MONTICELLO, IOWA.—The Monticello Electric Co. has secured a site for the erection of a light plant. H. J. Lang is Ch. Engr.

ROCHESTER, MINN.—Plans have been prepared by E. D. Jackson, Engr., St. Paul, for installing electric light wires underground, and installing a new lighting system. Estimated cost, $2,000 a block.

HIBBING, MINN.—The contract for installation of heat distribution mains for the city has been awarded to the A. C. SCHIRMER CO., of Hibbing, at $5,251.

KANSAS CITY, KAN.—In his report to the Mayor and Commissioners, Emil Barth, Special Engr., filed an estimate that it would cost Kansas City $350,000 to establish a municipal electric light and power plant, to run in connection with the municipal waterworks. This sum covers the purchase price of all the outside equipment, poles, lines and service of the old light company and the cost of erecting a power-house.

BLUE HILL, NEB.—The citizens have voted $8,000 of bonds for lighting purposes.

OMAHA, NEB.—Bids will be received until Sept. 24 by the Board County Commissioners for installing electric wire and conduiting for power and light; also telephone conduits for Douglas County court-house. John Latenser, Bee Bldg., Omaha, is Arch.; D. M. Haverly is County Clk.

KANSAS CITY, MO.—The Metropolitan St. Ry. Co., John M. Egan, Pres., will construct an addition to the lighting and heating plant in which to install three new boilers. Charles E. Fritts is Elec. Engr.

STEPHENS, ARK.—R. Smith, Trinity, Tex., has purchased the Stephens Canning & Mfg. Co.'s plant, and will convert it into an electric light plant. Machinery has been ordered.

GREENVILLE, TEX.—The Greenville Ry. Co., Albert Emmanuel, Pres., will construct a power-house.

PUEBLO, COLO.—The Pueblo & Suburban Traction & Lighting Co., Pueblo, is installing 660 HP. of new boilers, an overhead coal bunker, a coal and ash conveyor, a large feed-water heater and mechanical stokers under 2,000-HP. boilers. It is arranging plans for cooling towers, condensers, pumps and generating machinery to be installed next year. D. C. Roberts, Pueblo, is Supt.

OAKLAND, CAL.—Frederick C. Turner, City Engr., has petitioned the Board of Public Works to bond the city for the construction of an underground conduit.

VALLEJO, CAL.—Bids will be received at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Nov. 3, for remodeling gas house for employees' quarters at the U. S. Naval Hospital, Mare Island. William M. Smith is Acting Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

PRINCE RUPERT, B. C.—The City Engineer is preparing plans for temporary and permanent lighting systems, the former to be incorporated in the latter.

NELSON, B. C.—The application of the Pacific Exploration Co., H. C. Hall, of Nelson, Pres., for permission to erect an electric power plant on Pend d'Oreille River, near Waneta, has been granted, it is stated, and plans of the proposed plant with a daily capacity of 25,000 HP. and so built that the capacity may be doubled will be forwarded for consideration of the Lieutenant-Governor-in-Council at Victoria, B. C. The promoters expect to furnish electric power to the Pend d'Oreille Valley, the Sheep Creek and Ymir districts, and to the Orient, Chewela, and Metaline Districts.

BRIDGES.

*(*Denotes that this work is advertised in Engineering News.)*

PRESQUE ISLE, ME.—The Aroostook Valley R. R. Co. is making preparations to bridge the Presque Isle stream near the present terminal on Dyer St. A. R. Gould, Presque Isle is Gen. Mgr.

NORTH BILLERICA, MASS.—We are officially advised that the contract for constructing a concrete bridge over the Concord River at this place has been awarded to the HANSCOM CONSTRUCTION CO., Exchange Bldg., Boston. Joseph F. Talbot is Chn. of Bridge Com.

NEW YORK, N. Y.—Bids were received on Sept. 12 by Cyrus C. Miller, Pres. of the Boro. of the Bronx, for constructing sewers and appurtenances in West 242d St., between Broadway and Waldo Ave., between 242d St. and W. 244th St.; in W. 244th St., between Waldo Ave. and Spuyten Duyvil Parkway, in Spuyten Duyvil Parkway between West 244th St. and Riverdale Ave., as follows: Briggs & McLaughlin, $65,897; W. J. Ford, $64,676; Fox Hennesy Co., $68,668; Leahy Contracting Co., $64,204 P. F. Brennan, $60,289; Aneita Construction Co., $52,639; Voorhees Sullivan Contracting Co., $57,081.

DUNKIRK, N. Y.—Plans have been completed by the Buffalo & Lake Erie Traction Co. for the construction of a 900-ft. bridge across Eighteen Mile Gulf.

ALBANY, N. Y.—Bids were received by F. C. Stevens, Supt. Public Works, on Sept. 7 for Barge Canal Contract No. 22, providing for the construction of new highway bridges and raising existing highway bridges over the Erie Canal between Cold Spring and Free Bridge, as follows: M. Fitzgerald, Hoosick Falls, N. Y., $110,436; Lupfer & Remick, Buffalo, N. Y., $129,519; W. J. Burns Co., Syracuse, N. Y., $117,786. Engineer's estimate, $107,126.

ALBANY, N. Y.—The Canal Board on Sept. 8 approved plans and specifications for Barge Canal Contract No. 82. Contract No. 82 provides for the construction of a highway bridge superstructures for bridges over the Genesee River, near Rochester, at a cost of $27,235.

PHILADELPHIA, PA.—It is reported that the Philadelphia & Reading Ry. Co.'s Penn St. bridge will be replaced by a $150,000 concrete structure. William Hunter is Ch. Engr., Philadelphia.

PITTSBURG, PA.—It has been announced that the proposed Bloomfield bridge will extend from Milwood to Cayuga St., instead of to Atlantic Ave.

ELIZABETHTOWN, PA.—See item under Streets and Roads.

CHESTER, PA.—Bids will be received until 10 a. m., Sept. 19, at the office of the Board of County Commissioners, Court House, Media, for making repairs to the West Ninth St. bridge.

BALTIMORE, MD.—The contract has been awarded by the Board of Awards for the construction of a concrete bridge across Jones' Falls at Pratt St., to D. V. AULT at $87,810. The work is to be completed in 150 days.

WHEELING, W. VA.—Contract has been awarded by the County Commissioners to ARCHER & DAY, of Bellaire, for erecting a concrete bridge in Colerain Township.

ELIZABETH, N. C.—Bids will be received until Sept. 26 by C. A. Robinson, Secy-Treas. of the Camden Ferry Co., for constructing a bridge, estimated to cost $10,000.

ELIZABETH, N. C.—The Elizabeth City & Albemarle Railroad Co. will erect 40-ft. iron bridge in connection with construction of road from Elizabeth City to Lester's Pier via Weeksville. D. G. Wilson is Gen. Mgr.

HOLLY SPRINGS, MISS.—Marshall County will construct a 60-ft. post trestle bridge on Road No. 24. C. H. Wright is Clerk.

WAVERLY, TENN.—A contract has been awarded to the NASHVILLE BRIDGE CONSTRUCTION CO. for constructing a steel bridge across Duck River at Link Ford at $18,500.

COLUMBUS, OHIO.—The Toledo & Ohio Central R. R. Co. has awarded a contract for the construction of 28 steel bridges to the TOLEDO & MASSILLON BRIDGE CO., of Massillon, Ohio. J. A. Stocker, Columbus, is Ch. Engr.

SPRINGFIELD, OHIO.—The contract for constructing the East High St. bridge has been awarded to W. H. SIEVERLING, of Springfield, at $22,392.

ZANESVILLE, OHIO.—Bids will be received by the Board of Commissioners of Muskingum County until Oct. 3 for the erection of the Fifth St. bridge in this city. J. J. Stewart, Engr.

STEUBENVILLE, OHIO.—The Pittsburg, Cincinnati, Chicago & St. Louis Ry. Co., a branch of the Pennsylvania lines, has awarded the contract for Bridge No. 17, across Dry Run, near Arrayo, W. Va., to McKELVY HINES, of Pittsburg. Estimated cost, $20,000.

FORT WAYNE, IND.—Bids have been received for the construction of a concrete bridge across the St. Joseph River at Tennessee Ave., as follows: La Fayette Engineering Co., La Fayette, Ind., $5,000; National Concrete Co., of Indianapolis, $29,990; Herman W. Tapp Construction Co., $31,903, and George Jaap, $31,363. The following figures were submitted for an iron bridge: Attica Bridge Co., $22,425, with abutments; La Fayette Engineering Co., $29,700, with abutments. The appropriation is $32,000. F. M. Randall is City Engr.

ELKHART, IND.—It is reported that plans are being prepared for erecting a bridge across the St. Joseph River above the dam near the intersection of Goshen Ave. with the River.

METROPOLIS, ILL.—Contracts for constructing four bridges of reinforced concrete have been awarded to YANCY & JOHNSON, of Paducah, Ky., at $30,000.

FOND DU LAC, WIS.—The Park Board is contemplating the erection of a swing bridge about 50 ft. long to connect Lake Park with the Park Ave. roadway, now in course of construction. H. R. Potter, Pres. of Park Board.

DES MOINES, IOWA.—The contract for the proposed 6-span concrete bridge over the Des Moines River on Walnut St. has been awarded to JOHN WHEELER CONSTRUCTION CO., of Geneva, Ill., at $169,661. Noted Aug. 25.

FT. DODGE, IOWA.—Contract has been awarded by the City Council for constructing the Third St. viaduct to the INDIANA BRIDGE CO., of Muncie, at $37,332.

MINNEAPOLIS, MINN.—Plans and specifications have been completed for constructing a railroad bridge across the canal between Lake of the Isles and Lake Calhoun. Estimated cost, $25,000. William Pierce Cowles is Engr.

CAMBRIDGE, NEB.—Henry F. Clark has offered to give funds for the construction of a bridge over the Platte River.

MISSOULA, MONT.—Bids are being asked for the construction of a bridge across the Rattlesnake River at Vine St. Plans and specifications are on file with the City Engineer.

LAKE VILLAGE, ARK.—The County Court has awarded the contract for constructing a steel bridge over Big Yarn Bayou, on Lake Village-Luna Road, to the VINCENNES BRIDGE CO., of Vincennes, Ind. The structure to be 136 ft. long with two 75-ft. spans.

*DALLAS, TEX.—Bids will be received until 10 a. m., Oct. 1, by John L. Young, County Judge, for the construction of the Dallas-Oak Cliff viaduct. The work will include 43,500 cu. yds. of reinforced concrete and a 100-ft. steel span; also 40,000 ft. of concrete piling and 8,600 ft. of timber piling. Plans and specifications are on file with John F. Witt, County Engr.

DALHART, TEX.—Plans have been completed for the construction of a bridge across the Rita Blanco Canyon leading into Dalhart from Hartley County. Estimated cost, $10,000.

CUERO, TEX.—Contract has been awarded by the County Commissioners for constructing a bridge across Coleto Creek to W. S. HOUSE, JR., of Dallas, Tex., at $5,798.

HOUSTON, TEX.—See item under Water-Supply—Irrigation.

CRIPPLE CREEK, COLO.—Bids will be received until noon, Sept. 20, for the construction of a concrete steel highway bridge over Coal Creek in Teller County. Plans and specifications are on file in the office of the County Clerk of Cripple Creek.

ABERDEEN, WASH.—The Union P[illegible]c R. R. Co. has reached an agreement [illegible] the Vulcan Iron Works for a rig[illegible] way through its property on the water [illegible] The property is to be used for the [illegible] side bridge across the Chehalis River. [illegible] L. Huntley is Ch. Engr., Omaha, Neb.

TACOMA, WASH.—The City Co[illegible] has decided to build a bascule bridge [illegible] the city waterway. The lift span wi[illegible] 174 ft. long. Estimated cost, $454,000.

MALOTT, WASH.—The Board of [illegible]nty Commissioners has awarded the [illegible]wing contracts: Combination steel and [illegible]ber bridge over the Okanogan River at [illegible] to the WILLIAM OLIVER BRIDGE C[illegible] Spokane, at $12,470; a combination [illegible] and timber bridge over the same river [illegible] Tonasket to the HENNEPIN BRIDGE [illegible] Minneapolis, Minn., at $6,288; combina[illegible] wood and steel bridge across the Methow [illegible]r at Winthrop to the WILLIAM [illegible]VER BRIDGE CO., Spokane, at $4,920.

PORTLAND, ORE.—The City Eng[illegible]r has reported that his estimate for the [illegible] of a bridge across the river from Di[illegible] to Sherman St. is $1,050,000, and for t[illegible] [illegible]matilla Ave. bridge, $875,000.

SAN DIEGO, CAL.—The Highway Commission has decided in connection with the construction of the Coast Road known as Route No. 2 of the County Boulevard System, to build a number of bridges as follows: Over the Santa Margarita River, 450 ft. long, two 100-ft. trusses, the remainder to be of piling; La Flores River, 135 ft. long, two piles of 17 ft. each, and one truss of 100 ft. with 2 ft. of vents; San Onofre Creek, [illegible]3 ft. long, both trusses and piling; South branch of San Mateo Creek, 17 ft. of trestle piling; San Onofre Creek proper, 500 ft. long, two 100-ft. trusses and the remainder to be trestles on piling.

BERNARDO, CAL.—Bids have been received for the construction of a bridge over the Bernardo River as follows: Escondido Construction Co., $8,870; Merced Bridge Co., $8,562; Standard Iron Co., $9,650.

HAYWARDS, CAL.—Contract has been let for the construction of the additional width to the bridge across the San Lorenzo Creek to T. B. RUSSELL, at $6,585.

SAN ANSELMO, CAL.—The contract has been awarded by the Trustees for constructing a reinforced concrete bridge near the railroad station to THOMAS S. CHRISTENSEN, of San Francisco, at $5,690.

LOS ANGELES, CAL.—The Southern Pacific Co. and an interurban railroad company will unite in building a double track drawbridge of the bascule type across the entrance of west basin of the inner harbor. H. B. Titcomb, Los Angeles, is District Engr.

PRESCOTT, ARIZ.—Bids will be received until 2 p. m., Sept. 27, for the construction of a bridge across the Vere River at Camp Vere. It will be 300 ft. long with a 20-ft. roadway and will have two cantilever spans of 150 ft. each. Plans and specifications are on file in the office of the Territorial Engineer.

BROCKVILLE, ONT.—The contract has been awarded for the superstructures of three highway bridges to the JENKS DRESSER CO., of Sarnia, Ont., and the substructure to the DOMINION CONCRETE CO., of Kempville. E. R. Blackwell is County Engr.

TORONTO, ONT.—A contract has been awarded to E. C. LEWIS, 16 Close Ave., for filling and grading the approaches to the concrete bridge over the Humber River at 70 cts. a cu. yd. for filling and $1.50 a cu. yd. for gravel surface. Barker & Young are County Engrs.

VANCOUVER, B. C.—Plans have been filed by Waddell & Harrington, 608 New Nelson St., Kansas City, Mo., for constructing bridges between Georgia and Harris Sts. and between Dunsmuir and Keefer Sts. The total length of the Georgia St. bridge is to be 2,700 ft. and that at Dunsmuir St. 2,200 ft. Both will be double tracked and will have a 42-ft. roadway. Estimated cost of the Georgia St. bridge is $415,000 and of the Dunsmuir St. bridge, $350,000.

The City Engineer has prepared plans for the proposed Coal Harbor bridge at the foot of Georgia St. Cost, $160,000. Work will be started this fall.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

BEVERLY, MASS.—Bids were received as follows on Sept. 8 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Beverly: J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $64,370; C. S. Cunningham & Sons Construction Co., Lynn, Mass., $74,70[illegible]; Henry Wallis, Beverly, Mass., $57,500; William Werner, 657 Vanderbilt Ave., Brooklyn, $[illegible]2,86[illegible]; Conners Bros. Co., Lowell, Mass., $64,900; William H. Fissell & Co., 1133 Broadway, New York, $60,993; [illegible]man & Brown Co., Salem, Mass., $68,77[illegible]; Woodberry & Leighton, 166 Devonshire St., Boston, Mass., $63,369.

MARLBORO, MASS.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Marlboro, bids for which were opened on Aug. 2[illegible] and noted on Sept. 1, to J. E. & A. L. PENNOCK, Land Title Bldg., Philadelphia, at $63,230. Time, Oct. 1, 1911.

JAMAICA PLAIN, MASS.—The following bids were received for constructing Curtis Hall (a municipal building): A. [illegible]ARNERIN CO., 46 Cornhill, Boston, $74,8[illegible] (awarded contract); John A. Rooney, 9[illegible] Milk St., Boston, $85,320; Ford & Denning, Boston, $81,480; McGahey & O'Connor, Cambridge, $101,390.

NEW YORK, N. Y.—The following bids were received by C. B. J. Snyder, Supt. School Bldgs., on Sept. 12 for installing heating and ventilating apparatus in Erasmus [illegible] School, Boro. Brooklyn: Frank Dobson [illegible], Inc., 319 East 53d St., New York, $53,2[illegible]; [illegible] E. Rutzler Co., 404 East 40th St., $53,400; Blake & Williams, 24 New [illegible], New York, $56,750; James Curran [illegible] Co., 512 West 36th St., New York, $55,7[illegible].

NEW YORK, N. Y.—Bids will be received until [illegible] m., Oct. 14, by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., for the construction of a double [illegible] of Assistant Surgeon's Quarters in conjunction with the reconstruction and additional buildings for the Marine Hospital at Staten Island (including the mechanical equipment).

NEW YORK, N. Y.—Bids will be received until noon, Sept. 22, by B. F. Cresson, Jr., Deputy and Acting Comr. of Docks and Ferries, Boro. of Brooklyn, on Contract No. 1230, Class 2, for furnishing the labor and materials required for removing the northerly waiting room, overhauling and repairing the southerly waiting room, the boiler house and shelters; installing electric lighting, water and heating systems; installing coal-hoisting machinery and constructing a new boiler house and concrete drains, Broadway, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids will be received until 10.30 a. m., Sept. 22, by R. Waldo, Fire Comr., for furnishing all the labor and materials required for additions and alterations to quarters of Engine Company 143, on 18th Ave., near 86th St., Brooklyn.

The following bids were received by C. B. J. Snyder, Supt., School Bldgs., on Sept. 6, for the general construction, etc., of additions to and alterations in Public School No. 40, on Prospect Ave., Jennings St. and Ritter Pl., Boro. The Bronx: Charles Wille, $83,000; William Werner, 657 Vanderbilt Ave., Brooklyn, $82,668; George Hilderbrand, $84,832; Thomas McKeown, $79,400; Kerr & Krinkle, $100,000; J. F. Walsh, Jr., Construction Co., 16 Beaver St., New York, $74,940; A. L. Guidone & Co., $79,235; P. J. Brennan & Son, $88,495; T. A. Clark & Co., $83,600; H. G. Stowe Construction Co., $88,700.

The Studebaker Building, which occupies the entire frontage on the north side of 48th St., from Broadway to Seventh Ave., has been leased to Bustanoby Bros., Props. of the Cafe des Beaux Arts, at 40th St. and Sixth Ave. The lessees are planning to convert the building into a hotel. The Studebaker Company obtained a lease for 21 years of the property in 1903 from the Juilliard Estate, with a renewal clause. The building is a 10-story fireproof structure, with a frontage of 104 ft. in 48th St., 112.6 ft. in Seventh Ave. and 115.8 ft. in Broadway.

NEW YORK, N. Y.—George and Edward Blum, Archs., 505 Fifth Ave., New York, filed plans recently for the 12-story apartments to be built at the northwest corner at 89th St., for the 89th-90th Street Co. The building will have facades of brick, limestone and terra cotta, and will have an inner court and an outer court on the Broadway and street sides. It will be 100.8 x 150 ft., and will house 69 families. The estimated cost is $1,000,000.

Plans were filed recently for two loft buildings to be erected on the west side of Centre St., between White and Walker Sts. The building at the corner of White St. will have a frontage of 90.6½ ft. in Centre St. and 54.6 ft. in White St., while the building at the Walker St. corner will have a frontage of 147.3¾ ft. in Center St. and 70.2 ft. in Walker St. The building at the Walker St. corner will cost $450,000, and the one at the White St. corner $210,000. Israel Lippman is the owner. Schwartz & Gross, 347 Fifth Ave., are Archs.

NEW YORK N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 3 p. m., Sept. 26, for (1) installing heating and ventilating apparatus, and (2) installing temperature regulation, in addition to Public School No. 19, on the westerly side of Keap St., between South Second and Third Sts., Boro. of Brooklyn; for alterations, equipment, etc., of a cooking room at Public School No. 134, 18th Ave., near Ocean Parkway, Boro. of Brooklyn; for (1) general alterations, etc.; (2) installing sanitary fixtures, etc., and (3) installing heating and ventilating appartus at 991 and 993 Southern Boulevard Annex to Public School No. 20, Boro. of The Bronx; for alterations, repairs, etc., at Public School No. 51, at 519 West 44th St., Boro. of Manhattan.

ALBANY, N. Y.—The contract for constructing a fire truck house at Delaware Ave. and Marshall St. has been awarded to JOHN DYER, JR., Albany County Bank Bldg., Albany. Bids were received on Sept. 6.

CORNING, N. Y.—The J. M. Greig Co. has signed a contract with the CORNING BUILDING CO. for the erection of a 4-story brick block at 27-33 West Market St. Cost, $65,000.

ITHACA, N. Y.—We are officially advised that E. L. Williams, Treas. Cornell University, has awarded the contract for the construction of an addition to the New York State Veterinary College, including heating, ventilating, plumbing and electrical work, to DRISCOLL BROS. & CO., Ithaca. Franklin B. Ware, State Arch., Albany, N. Y., prepared the plans.

ROCHESTER, N. Y.—A building permit was granted recently by Herbert W. Pierce, Fire Marshal, to the Trustees of the Church of the Holy Redeemer for the erection of a 2-story and basement parochial school. The structure will be 65 x 118 ft. and 48 ft. in height at the intersection of Hudson Ave. and Alphonse St., and will be of fireproof construction. Cost, $30,000.

*CANANDAIGUA, N. Y.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 17, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Canandaigua.

SYRACUSE, N. Y.—Albert E. Westover, Keith Bldg., Philadelphia, Pa., is preparing plans for a 7-story theater and office building to be built in Syracuse, for B. F. Keith. Cost, $300,000.

BUFFALO, N. Y.—The BUFFALO EXPANDED METAL CO., D. S. Morgan Bldg., has been awarded the contract for constructing a 4-story and basement warehouse addition, 31 x 162 ft., of brick and structural steel, at 297 Niagara St., by the American Household Storage Co., from plans of G. Morton Wolfe, Arch., 638 Ellicott Sq. Bldg.

ROCHESTER, N. Y.—The First United Presbyterian Church on Allen St., between Fitzhugh St. and Plymouth Ave., North, has been purchased by the Rochester Tool Works, John Buckley, Pres. and Treas. It is the intention of the new owners to remodel the old church for their needs.

GLOUCESTER CITY, N. J.—The Philadelphia & Gloucester Ferry Co. has awarded a contract to J. F. McCLOSKEY for a ferry-house to replace the old structure at the foot of South St., Delaware River. The city of Philadelphia contemplates widening Delaware Ave. south of South St., which will necessitate the extension of the bulkhead. Clark Dillenbeck is the company's Arch. Estimated cost, $40,000.

Bids will be received by the Bureau of Immigration, Dept. of Commerce and Labor, Washington, D. C., until Sept. 28, for remodeling the former home of William J. Thompson at Gloucester into a building suitable for housing the Immigration Commissioner and his staff of assistants. Out of the money left there will be built a temporary hospital, a double-deck pier and a detention pen.

ALLENTOWN, PA.—The Board of Control has authorized a bond issue of $225,000 to cover a loan of $75,200, and to provide funds for the erection of school buildings and the purchase of sites.

TINICUM, PA.—Bids will be received by the School Board of the Township of Tinicum until 7.30 p. m., Sept 27, for the erection of a school building.

ERIE, PA.—Esenwein & Johnson, Archs., Ellicott Sq. Bldg., Buffalo, have completed plans for a 2-story and basement office building to be erected by the Erie City Iron Works at its plant. It will be 65 x 88 ft. and of brick and structural iron construction.

ELIZABETHTOWN, PA.—Bids were received on Sept. 5 by the Masonic Home Committee of the Grand Lodge of Pennsylvania, for constructing a power-house, reservoir, three dams, feed mains, supply mains, water lines, two miles of cobble gutters and building two miles of macadamized road from the Ridge Road to the Bainbridge Road, with a concrete bridge over Conroy Creek. JOHN GOLL & CO., 1339 Filbert St., Philadelphia, the lowest bidder, was awarded the contract at $51,676. The Armstrong-Latta Co., $64,297, and John McManny, $66,392, also bid.

PHILADELPHIA, PA.—According to reports, a contract has been awarded to JOHN R. WIGGINS, Heed Bldg., for completing the city hall. The estimated cost is $200,000.

PHILADELPHIA, PA.—The Bartlett Garage Co. will erect a 4-story building at the southeast corner of 21st and Market Sts. The structure will be 51 x 110 ft. JAMES G. DOAK & CO., 1420 Chestnut St., Philadelphia, have the contract. Estimated cost, $100,000.

Work will begin soon on a 10-story commercial building to be erected on the lots 821-23 Arch St., purchased some time ago by Max M. Sladkin for about $50,000. The building, which will be 43 x 137 ft., has been designed by Peukert & Wunder. It will cost about $125,000. The ROYDHOUSE AREY CO., Fidelity Bldg., Philadelphia, has been awarded the contract.

Hewitt & Paiste, Bullitt Bldg., Philadelphia, have finished sketches for a garage building to be erected by George C. Boldt, at 1401 to 1409 Locust St., it is stated. This property has a frontage of 103 ft. on Locust St. and a depth of 150 ft. Estimated cost, $200,000.

PHILADELPHIA, PA.—The WILLIAM STEELE & SONS CO., 1600 Arch St., has a contract for a 3-story warehouse, 82 x 98 ft., at the northwest corner of Blabon St. and the Philadelphia & Reading Ry. for the George W. Blabon Co. The cost will be $71,625.

PHILADELPHIA, PA.—R. C. BALLINGER & CO., 218 North 13th St., have a permit for a 3-story concrete and brick stable, 42 x 200 ft. on the north side of Chestnut St., west of 30th St., for George Abbott. It will cost $52,000.

WILLIAM J. PATTERSON has been awarded the contract for the erection of a residence for Dr. George Woodward at Chestnut Hill. The plans, drawn by Peabody & Stearns, of 53 State St., Boston, provide for a 3-story structure of stone, 55 x 90 ft., with a wing 28 x 68 ft. It will cost about $100,000.

George C. Boldt will erect a garage, 150x103 ft. at 1401 to 1409 Locust St. Hewitt & Paiste, Bullitt Bldg., Philadelphia, are archs. Estimated cost $200,000.

CRAMP & CO., Commonwealth Bldg., Philadelphia, have been granted a permit for an 8-story store and office building, 24 x 122 ft. at the northwest corner of 17th and Walnut sts. for Herbert D. Allman. Cost, $135,000.

WEST CHESTER, PA.—Bids will be received by the Board of Directors of the West Chester State Normal School until noon, Sept. 22, for the erection of an addition to the main building consisting of a dining room extension and girls' dormitory and kitchen, and for building a boys' dormitory on Wayne Field. A. B. Roecker is Secy. of Bldg. Com., West Chester. Seymour Davis and Paul A. Davis, 1600 Chestnut St., Philadelphia, are Archs.

PLAINS, PA.—The following bids were received on Aug. 31, by the School Board of the Township of Plains, for constructing a 3-story high school: Mathias Stipp, Scranton, solid brick, $70,200, veneer, $68,730; Walborn & Barney, Wilkes-Barre, solid, $68,850, veneer, $66,900; Thomas & Kear, solid, $69,300, veneer, $66,039; EDWARD CORCORAN, of Plains, solid, $66,784, veneer, $64,284 (awarded contract). The building will be constructed of solid brick and will be 80 x 120 ft. Owen McGlynn, Simon Long Bldg., Wilkes-Barre, Arch., prepared the plans.

YORK, PA.—Bids were received as follows on Sept. 13 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at York: Richard E. Heningham, 1 Madison Ave., New York, $272,995; William H. Fissell & Co., 1133 Broadway, New York, $217,000; B. Ketchams' Sons, 1029 Brown St., Philadelphia, $233,648; John G. Unkefer & Co., Minerva, Ohio, $212,000; Conners Bros. Co., Lowell, Mass., $232,000; Charles W. Peckworth, 415 Hudson St., New York, $226,440; King Lumber Co., Charlottesville, Va., $258,870; Cecil L. Saunders, Clifton Forge, Va., $267,000; M. P. Wells, Witherspoon bldg., Philadelphia, $226,752; J. L. Minough, York, Pa., $246,914; Norcross Bros. Co., Worcester, Mass., $255,000; Cramp & Co., Commonwealth Bldg., Philadelphia, $234,769; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $222,800; Ambrose B. Stannard, St. James Bldg., New York, $233,000; Charles McCaul Co., Tenth and Sansom Sts., Philadelphia, $214,757; M. Yeager & Sons, Danville, Ill., $238,150.

BALTIMORE, MD.—J. W. Crook, wholesale grocer, 407 Exchange Pl., is having plans and specifications prepared for his proposed residence to be erected on Charles St. Boulevard near 33d St. It will be 2½ stories, of brick, stone and marble trim, with slate roof, hot-water heat, gas and electric lighting, plumbing and tiling. Cost, $40,000. Bids will be asked for soon.

Louis T. Weis, Comr. of Immigration, is contemplating the erection of an immigration station in Baltimore, the exact location of which is not yet decided. It will cost about $150,000, it is stated.

George Rife, 1 North Calvert St., Baltimore, is interested in the announcement of the Empire Circuit that competitive designs are being drawn for the proposed Monumental Theater, to be erected at 307-15 West Fayette St. It will have a frontage of 125 ft., with a depth of 150 ft., and will cost about $150,000.

The St. Elizabeth Roman Catholic Church has commissioned Robert C. Ullrich, Arch., Gunther Bldg., to prepare plans and specifications for the church to be erected on Baltimore St. near Lakewood Ave. It will be 2½ stories high, and will have a slate roof, with steam heat, gas and electric lighting, plumbing and tile work. The cost will be about $100,000.

BALTIMORE, MD.—Baldwin & Pennington, Archs., Professional Bldg., have been commissioned by the Polytechnic Institute to prepare plans and specifications for the proposed three buildings to be erected on North Ave near Guilford Ave., to be used by the Institute. Each of the buildings will have three stories, and will be of brick and stone, with terra cotta columns and trimmings, slate roof, steam heat, electric wiring, steel work, cement floors, tile and marble work and plumbing. Cost, $220,000. Lieut. William R. King is principal of the school.

HIGHLANDTOWN (Baltimore post-office), MD.—Bids are asked by C. Montgomery Anderson, Arch., 324 North Charles St., until Sept. 22 for two warehouses to be erected in Highlandtown, Baltimore County. They will be two and three stories, of brick and steel and reinforced concrete, with tin and slag roof, ornamental iron work, cement floors and fireproofing. (Heating, elevator and electric work reserved.) The following firms are invited to bid: Engineering-Contracting Co., 502 St. Paul St.; Thomas L. Jones & Son; Baltimore Ferro-Concrete Co., 16 St. Paul St.; D. M. Andrews Co., 211 St. Paul St.; Monmonier & Sorrell, 1711 McCulloh St.; Morrow Bros., 218 West Saratoga St.; George A. Fuller Co., Munsey Bldg., Washington, D. C., and George Bunnecke & Sons, 305 St. Paul St.

OWINGS MILLS, MD.—Ellicott & Emmart, Archs., Union Trust Bldg., Baltimore, will soon finish the plans and specifications for the proposed school to be erected at Owings Mills for the Maryland School for the Feeble Minded. It will be of brick and stone construction with steam heat, gas and electric lighting and plumbing. The cost will be about $115,000.

SYKESVILLE, MD.—Parker, Thomas & Rice, Archs., Union Trust Bldg., have been commissioned by the Springfield State Hospital to prepare plans and specifications for the proposed hospital addition at Sykesville. The improvements will consist of two 3-story brick buildings and will cost about $30,000.

TOWSON, MD.—Thomas L. Jones & Son, 410 West Saratoga St., Baltimore, will supervise the construction of a public school for the Baltimore County School Board at Towson, to be erected on Calvert Ave. and old Pimlico Road. It will have 16 classrooms and will be two stories, of brick and stone, with steam heat, electric lighting and foundation of reinforced concrete. It will have a slate roof and will cost $50,000. G. Herbert Rice is Chn. of Com.

WASHINGTON, D. C.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, has awarded the contract for furnishing granite for the alterations in the Treasury Building, Washington, to the MALNATI STONE CO., Fifth and Vine Sts., Washington.

NORFOLK, VA.—A permit to build four brick stores at the corner of Granby St. and College Pl., at a cost of $48,000, was granted recently to C. W. Fentress by the Building Inspector. JESSE JOHNSON is the contractor and excavation for the structure is now well under way.

WHEELING, W. VA.—The contract for erecting an automobile garage for the Engineer Equipment Co. in East Wheeling has been awarded to H. W. FAIR, of Wheeling. It will be a 1-story building, 60 x 120 ft. and situated at the corner of 18th and Goff Sts.

MEMPHIS, TENN.—The Chickasaw Building Co. has been organized with a capital of $250,000 for the purpose of constructing a 12-story office building on North Front St., between Madison and West Court Aves. The incorporators are J. N. Falls, Ray Dunscomb, C. H. Raine, Joseph Newberger and J. W. Falls.

NASHVILLE, TENN.—Plans have been prepared by Asmus & Norton, Archs., for the erection of a wing on the north side of the City Hospital, and are being examined by the Board of Hospital Commissioners. The building will be three stories high. Cost, $50,000. S. J. Underwood is Chn.

COLUMBUS, OHIO.—The Board of Managers of the Ohio Penitentiary on Sept. 9 awarded the contract for building and equipping a new kitchen, dining hall, bakery, etc., at the penitentiary to R. H. EVANS & CO., Columbus Savings & Trust Bldg., Columbus, at $148,900. Work will be started at an early date, it is stated.

Bids will be received soon by Richards, McCarty & Bulford, Archs., The Ruggery, for the construction of a theater building at Third and State Sts. for F. W. Schumacher, 750 East Broad St.

SANDUSKY, OHIO.—JOHN FEICK, of Sandusky, has been awarded the contract for the construction of nurses' cottages at the Sailors' Home. Frank L. Packard, Arch., Columbus, prepared the plans and specifications.

CINCINNATI, OHIO.—The face brick contract for the new university buildings and the Douglas school, which were let recently, it is said, will cost at least $65,000. It will be used in the surfacing of the Engineering College, the gymnasium and the power plant of the new university buildings and in the facing of the Walnut Hills colored school at Chapel and Elm Sts. The PURSELL & GRAND CO., Merchants' Library Bldg., Cincinati, has the contract.

LEBANON, IND.—H. H. Harvey, Trustee of Eagle Creek Township, Boone County, will receive bids until Sept. 22 for the construction of an 8-room school house.

PERU, IND.—W. T. Smith, Supt. M. P., of the Chesapeake & Ohio R. R., Cincinnati, has announced that the company expects to make improvements at Peru to include the erection of an office building and storeroom for the master mechanic, additions to the roundhouse, the addition of many new pieces of machinery, and a complete electric light plant to replace the old one. These improvements will be made at once, and next spring another appropriation will be set aside for use in this city.

DETROIT, MICH.—John Scott & Co., Ford Bldg., has let the following contracts for the parochial school, three stories and basement, 110 x 143 ft., for the Roman Catholic Church of the Most Holy Redeemer, Rev. Daniel Mullane, Rector, 645 Junction Ave.: Masonry, to F. H. GODDARD, Ford Bldg.; carpentry, to DANIEL MORRISON, 505 McKinstry Ave. Cost, $50,000.

CHICAGO, ILL.—William F. Gubbins, Arch., Ashland Block, has awarded a masonry contract to JOHN KILLEEN, 112 Clark St., for a building at Sunnyside and Western Aves. for Rev. F. J. Reynolds. Estimated cost, $50,000.

E. J. Patelski, 160 Washington St., Chicago, is preparing plans for a building to contain 27 apartments and five stores, to cost $65,000, for Abe Teleschonsky, at the northwest corner of Jackson Boulevard and Robey St. It will be three stories, 90 x 130 ft., to be of pressed brick construction, with stone trim, hardwood finish, copper cornices, Kawneer store fronts and metal ceilings, modern plumbing and steam heating.

S. M. Seator, Arch., 105 Washington St., Chicago, is preparing plans for a building with 27 apartments, three stories, 155 x 127 ft., at 62d St. and Ellis Ave., for Fred Grabner. It will be of pressed brick construction, hardwood finish with mantels and consols, tile work, steam heating and plumbing. Cost, $75,000.

William F. Gubbins, Arch., Ashland Block, has awarded masonry to PETER KILSTOFTE; carpentry, to AUGUST WITTER; steam heating, to ENGLEHARDT CO., and plumbing to W. GARVEY for an apartment building, three stories, 105 x 180 ft., to cost $75,000, at Homan Ave. and Monroe St., for Alex Burke, 40th Ave. and 19th St. It will be of brick construction, with hardwood finish.

Patten & Miller, Archs., 140 Dearborn St., Chicago, have awarded the steam heating contract to W. B. GRAVES, 121 Kinzie St., and plumbing to WILLIAM INGRAM, 1258 East Ravenswood Park, for a church at Evanston and Wellington Aves., for the Wellington Ave. Congregational Church. Estimated cost, $50,000.

CHICAGO, ILL.—Doerr Bros., Archs., 39 Jackson Boulevard, have completed plans for a 3-story building at 2650 Lake View Ave., for Phillipp Rinn, Division and Crosby Sts. It will be of pressed brick construction, hardwood finish, with mantels and consols, marble, mosaic and tile works, combination light fixtures, steam heating and modern plumbing. The owner is receiving estimates. Cost, $75,000.

Beers & Beers, Archs., 168 Michigan Ave., have awarded the general contract to WILLIAM McCUMBER, 6608 Rhodes Ave., Chicago, for a 6-story building, 106 x 200 ft., at 441-449 Fifth Ave., for the Wells, Fargo Express Co. It will be of reinforced concrete, steel, tile and pressed brick construction, with steam heating. Estimates on elevators for the building are now being received. Estimated cost, $200,000.

Ottenheimer, Stern & Reichert, Archs., 134 Monroe St., Chicago, have awarded the excavating contract to READING & CALLAHAN, and reinforced-concrete piling to the

RAYMOND CONCRETE PILE CO., 135 Adams St., Chicago, for a 7-story building, 92 x 330 ft., at 39th St. and La Salle Ave., for the Hartmann Furniture Co. Estimates for superstructure will be received soon. It will be of fireproof construction, with fireproof windows, automatic fire doors, gravity tank sprinkler system and have electric freight elevators. Noted last week.

Marshall & Fox, Archs., 164 Dearborn St., are receiving estimates on the following for the S. Karpen building at Michigan Ave. and Eldridge Pl.: Furnaces, boilers, breeching, ash handling equipment, steam heating and heat regulating apparatus, high pressure and exhaust piping, pumps, tanks, electric wiring, elevators, marble, mosaic and tile work, mail chutes, generator, switchboard, sprinkler system, vacuum cleaning machines, lighting fixtures, hardware, decorating and painting, window shades and metal weather strips.

CHICAGO, ILL.—J. C. Zarbell, Arch., 97 Clark St., is preparing plans for a 3-story warehouse, 30 × 44 ft., at Peoria and Lake Sts., for Fred Rentz. It will be of brick and mill construction, with fireproof windows, and steam heating. Mr. Zarbell has awarded masonry contract to A. LUND CO.; carpentry, to MENKE & THIELBERG; plumbing, to WILLIAM J. LANG, 538 Division St., Chicago; cut stone work to P. KEMPF, and structural and iron and automatic fire doors to HOLMES, PYOTT & CO., 13 North Jefferson St., Chicago. The following is being figured: Electric freight elevator, automatic sprinkler system, steam heating, fireproof windows and electric construction work for a 7-story warehouse, 40 × 80 ft., at Randolph and Union Sts., for Arnold Bros.

OAK PARK, ILL.—H. G. Fiddelke, Arch., Parkside Bldg., Oak Park, awarded the masonry contract to GUY & McCLINTOCK, 52d and Lake Sts., and carpentry to CHARLES HILMER, Forest Park, Ill., for six residences to be erected at Chicago and Oak Park Aves. for Burton F. Hales. They will be of pressed brick and stucco plaster construction, with hardwood finish and will have hot water heating. Total cost, $40,000.

PEORIA, ILL.—Sidney Lovell, Arch., 164 Dearborn St., Chicago, is receiving estimates on a theatre building at Peoria, for Churchill & Burrows. The foundation is in and the superstructure is being figured on. A $50,000 office building will be added later on. It will be of steel and tile, fireproof construction, with terra cotta and pressed brick front. Seating capacity, 1,250. Estimated cost, $50,000.

KENOSHA, WIS.—A bond issue of $45,000 has been voted upon by this city to carry on the work of building a city hall. Robert H. Moth is City Engr.

MADISON, WIS.—Bids will be received until Sept. 20, by the Capitol Commission of Wisconsin, for the furnishing and erecting of the superstructure of the central portion of the Capitol. This work is to be executed in accordance with the plans and specifications prepared for it by George B. Post & Sons, Archs., 347 Fifth Ave., New York, and is to be done under their supervision and direction. Lew F. Porter is Secy. of Comn.

WATERLOO, IOWA.—The contract for the erection of the First National Bank building has been let to JAMES MAINE & SONS, of Des Moines, Iowa. It will be an 8-story structure, of reinforced concrete and red paving brick. Cost, $175,000.

FARIBAULT, MINN.—The State Board of Control, Charles Halverson, Chn., St. Paul, received bids on Sept. 5, we are officially advised, for the general construction of an addition to the boys' custodial building at the State School for the Feeble-minded at Faribault. A horse and a cow barn of brick are embraced in the contract. WILLIAMS, O'NEILL & SON, of Faribault, were awarded the contract at $50,000. C. H. Johnston, St. Paul, is Arch.

MINNEAPOLIS, MINN. — The H. N. LEIGHTON CO., 213 South Sixth St., Minneapolis, has been awarded the general contract for rebuilding the A. W. Wright building at Seventh Ave., South, and Third St., to be occupied by the Great Northern Implement Co. It will be an 8-story structure of reinforced concrete construction. The first story walls will be Bedford cut stone, with Coon Creek red brick above and terra cotta trimmings. It is to be completed by Jan. 1. Cost, $200,000. Kees & Colburn, Donaldson Bldg., Minneapolis, are Archs.

ROCHESTER, MINN.—Patten & Miller, 140 Dearborn St., Chicago, Archs., have awarded the fan system of steam heating to CARSON & PAYSON, Danville, Ill., and plumbing to MASS & McANDREWS, Rochester, for a 3-story high school, 70 × 150 ft., at Rochester, for the Board of Education. John E. McGovern is Secy. Total cost, $90,000. Other contracts were noted on Aug. 25.

WINONA, MINN.—C. A. Eckstrom, Arch., Tacoma Bldg., Chicago, Ill., has awarded the general contract to HAGIN & STANOS, Minneapolis, for a 6-story building, 94 × 139 ft., at Winona, for the Watkins Medical Co. It will be of reinforced concrete construction, with steam heating and electric elevator.

ST. PAUL, MINN.—Bids will be received until Sept. 19, by Horace Lowry, Pres. Arcade Investment Co., Minneapolis, for the general construction of a 7-story pressed brick and cut stone store and office building to be built at Fourth, Fifth and St. Peter Sts. It will be used as a physicians' office building. It will be 50x300 ft., of reinforced concrete fireproof construction, having a clinic hall and stage seatitng 250, and two electric passenger elevators. Kees & Colburn are Archs., 1100 Donaldson Bldg., Minneapolis. Cost, $200,000.

ST. PAUL, MINN.—Bids are being received by George Benz & Sons, 407 Jackson St., St. Paul, for the construction of the proposed Empress Theatre on Wabasha, Exchance and St. Peter Sts., from plans drawn by Buechner & Orth, Archs., Manhattan Bldg., St. Paul. It will be fireproof and will have a seating capacity of 1200. The contract for the foundation has been let to the F. J. ROMER CONSTRUCTION CO., 190 Ramsey St., St. Paul. Cost, $75,000.

ABERDEEN, S. DAK.—Hall & Walker are considering the erection of a theater building to replace the Gottschalk Theater, which was burned recently. Estimated cost, $40,000.

ONIDA, S. DAK.—Bids will be received until 2 p. m., Oct. 5, by F. S. Barber, County Audr., for the erection of a court-house, from plans drawn by the Black Hills Co., Archs., of Deadwood, S. Dak.

*MACON, MO.—Bids will be received by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., until 3 p. m., Oct. 10, for the complete construction of a post-office in Macon.

ST. LOUIS, MO.—Plans have been prepared and a site has been selected on the west side of Euclid Ave., between Audubon Ave. and Parkview Pl., for the proposed St. John's Hospital, for the Sisters of Mercy. The building will be five stories high with a deep basement, and will have a frontage of 250 ft. on Euclid Ave., with wings which shall extend westward 200 ft. on Parkview Pl. and Audubon Ave. The cost is estimated at $400,000.

LEXINGTON, MO.—Bids were received as follows on Sept. 12, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Lexington: Hiram Lloyd Bldg. & Construction Co., Odd Fellows' Bldg., St. Louis, $45,665; Latimer & Benning, Kansas City, Mo., $46,500.

COLLEGE STATION, TEX.—The Board of Directors of the Agricultural and Mechanical College of Texas has approved plans for the construction of new dormitories. The plans call for a building 96 ft. wide and 136 ft. long, four stories high, with a court in the center, 28 × 48 ft. The interior of the building will be of reinforced concrete. The exterior body walls of the building will be of brick. The outside will be faced with old gold mottled brick and the court will be faced with sand lime brick. The trimming will be of artificial stone. The building will be practically fireproof. Estimated cost, $100,000. Robert T. Milner is Pres.

HOUSTON, TEX.—The contract for the erection of the Southern Pacific R. R. office building on Franklin Ave. and Travis St., has been awarded to WILLIAM MILLER & SONS, 28 Federal St., Pittsburg, Pa. Approximate cost, $512,793. Work will start at once. Noted on Sept. 1.

SAN ANTONIO, TEX.—A granite hotel is to be erected at the new town of Spanish Pass, a summer resort near this city. The proposed hotel will be situated on Lookout Mountain. Frank Fanning and J. Vandiandingham, of San Antonio, are interested in the project. Estimated cost, $250,000.

SAN MARCOS, TEX.—Bids were received as follows on Sept. 6 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at San Marcos: J. F. McKnight, Hattettsville, Tex., $44,450; Hiram Lloyd Building & Construction Co., Odd Fellows' Bldg., St. Louis, Mo., $47,391; McHenry-Beatty Co., East Liverpool, Ohio, $43,300; King Lumber Co., Charlottesville, Va., $52,870; L. R. Wright, Dallas, Tex., $43,730; Clarence Jefferies, Laredo, Tex., $44,400; D. J. Phipps, Newport News, Va., $43,405; Fell & Ainsworth, Waco, Tex., $44,140.

TEMPLE, TEX.—Bids will be received until 3 p. m., Oct. 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the complete construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Temple.

BREMERTON, WASH.—Bids will be received until 11 a. m., Oct. 15, at the office of the Civil Engineer, Navy Yard, for the construction of one officers' quarters at the Navy Yard, Puget Sound. William M. Smith is Acting Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

SEATTLE, WASH.—The contracts for the proposed "workingman's" hotel at Ninth Ave. and Jackson St., have been awarded as follows: General contract to BUCHANAN & CRIPPS; heating and plumbing to the PACIFIC HEATING & PLUMBING CO., 319 Central St., Seattle. It will be a 4-story building, 90 × 115 ft., of concrete, brick and lumber. Cost, $45,000. Breseman & Durfee, 401 Central Bldg., Seattle, are Archs. The owner is the Landes Estate Co.

SAN FRANCISCO, CAL.—The Board of Education recently appropriated $1,300,000 for the construction of three high schools. Ground will be broken for the Lowell High School, to be erected on Hayes St., extending the length of the block between Masonic Ave. and Ashbury St. The construction of the building will be under way soon. It will be built of brick and terra cotta, with a steel frame and will be three stories high, with a commodious basement. There will be 40 rooms and the appropriation for the building is $350,000.

The Polytechnic High School is to be erected between Frederick and Carl Sts., and First and Second Aves. With a bond issue for the purpose of raising $600,000, the School Department will erect a 3-story terra cotta and brick building on a steel framework, to include 60 rooms.

On Scott St., between Geary and O'Farrell Sts., will be erected the $350,000 high school for the exclusive use of girls. The building will be two stories in height, with a deep, wide court and an auditorium attached to the O'Farrell St. wing.

SANTA BARBARA, CAL.—Plans for a hospital to be known as Cottage Hospital have been completed by E. Russell Ray, Arch. The building will face on Third Ave., and will be fireproof, with reinforced concrete columns and girders and brick walls. Both the exterior and interior will be finished in plaster. Estimated cost, $50,000.

LOS ANGELES, CAL.—Frederick Noonan, Arch., Broadway Central Bldg., has prepared plans for a 4-story brick apartment building to be erected on Carondolet St., for George W. Kitchen and D. S. Johnston. It will be 92 × 106 ft. Estimated cost, $60,000.

The contract for erecting the 7-story Hoffman-Meyer building has been awarded to the BARBER BRADLEY CONSTRUCTION CO., 411 Currier St., Los Angeles. The building will be located on Broadway, between Seventh and Eighth Sts., and will cost $56,114. A 10-year lease on it has been secured by the Young's Market Co., who will use the building for a market and for rental purposes. R. B. Young, Lankershim Bldg., is Arch.

A permit for the erection of the 5-story apartment house to be built at 601 Rampart St., by H. W. Bryson, was issued recently by the Municipal Building Department. Estimated cost, $160,000.

SAN DIEGO, CAL.—Harrison & Stibolt, Archs., Lawyer's Bldg., have drawn plans for the proposed union depot to be erected jointly by the San Diego & Arizona and the Atchison, Topeka & Sante Fe railroad companies. The building, together with the train sheds, will occupy nearly all of two blocks along the tracks from B to D Sts. It is to be of mission style, the main portion to be two stories high and the wings one story, of reinforced concrete construction, with a tile roof, glass dome and steel train shed. The main waiting room will be 100 ft. square, to be vaulted and domed. The baggage room will be 60 × 90 ft. The Wells-Fargo Express quarters will be 60 × 102 ft. The building will have steam heat. Allen F. Hunt, Gen. Agt. of the Santa Fe R. R., has charge of the construction.

OAKLAND, CAL.—The Realty Syndicate Bldg. is to be raised from two to ten stories high. DYER BROS. have been awarded the contract for the erection of the steel frame, and work is to start soon. The building is to be a Class A structure, and will represent an expenditure of $750,000. One-third of this sum is to be spent in interior decorating, it is stated.

WHITTIER, CAL.—Plans for a Hall of Science at the Union High School were completed recently by Norman F. Marsh, Arch., Broadwell Central Bldg., Los Angeles. Estimated cost, $50,000. Bids will be asked for soon.

TUCSON, ARIZ.—G. Lourdon, Arch., Douglas Bldg., Los Angeles, has prepared plans for a 2-story brick building, 185 × 78 ft., to be erected at Tucson for Allison Bros. Steam heat, vacuum cleaning system, passenger elevator, etc., will be installed. Estimated cost, $60,000.

QUEBEC, QUE.—Bids will be received until Sept. 17 for the construction of the proposed library to be annexed to the Parliament Buildings. Marhand & Tanguay are Archs., 20½ D'Aiguillon St.

KINGSTON, ONT.—Bids will be received until 6 p. m., Sept. 20, for the erection and completion of the Nicol Building, for the Governors of the School of Mines and Agriculture. Plans and specifications may be seen at the University, and at the office of Power & Son, Archs., Kingston.

TORONTO, ONT.—Bids will be received by the Chairman of the Building Committee, Toronto General Hospital Governors, Toronto, until Sept. 27, for the trades required in the erection of buildings for the Medical Wing and Administration Building in connection with the Hospital. Darling & Pearson, 2 Leader Lane, Toronto, are the Archs.

LETHBRIDGE, ALTA.—The following bids were received for erecting the Fleetwood school: SMITH BROS. & WILSON, (a) stone, $55,050 (awarded contract), (b) concrete blocks, $54,250; W. Rex Virtue, (a) $56,553, (b) $53,128; D. E. Wilson, (a) $50,000, (b) $56,000; Doyle & Thomas, (a) $61,624, (b) $58,124. Stone was the material decided upon. The following bids were for plumbing and heating: STANDARD PLUMBING CO., $12,637 (awarded contract); Wm. Head & Co., $12,699; Western Plumbing Co., $13,295; Hick-Sehl Hardware Co., $13,387.

NEW WESTMINSTER, B. C.—Bids will be received until Sept. 26, by F. C. Gamble, Public Works Eng., Victoria, B. C., for alterations and additions to the Court House at New Westminster.

WATER SUPPLY—IRRIGATION.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The City Council has awarded a contract to the POWER EQUIPMENT CO., Board of Trade Bldg., Boston, for furnishing, delivering and erecting two steam turbine driven centrifugal pumps for the Calf Pasture pumping station at $36,063. Bids were received on Sept. 1.

LYNN, MASS.—A site has been selected on Walnut St. at Lynnhurst for the proposed mechanical filter plant. Cost, $500,000. Hering & Fuller, 170 Broadway, New York, N. Y., are Engrs.

*ITHACA, N. Y.—Bids will be received by Donald F. McLeod, City Engr., until 7.30 p. m., Sept. 28, for clearing a reservoir site of about 40 acres, constructing an earth embankment containing about 5,000 cu. yds., constructing a dam containing about 7,700 cu. yds., of concrete and requiring the excavation of about 4,300 cu. yds. of rock and furnishing and laying about 9,000 ft. of 24-in. c.-i. pipe. Last week the date for this work was erroneously given as Sept. 24.

SCHENECTADY, N. Y.—JOSEPH H. CLEMENTS has been awarded a contract by the Board of Contract and Supply for laying water mains in a number of streets of Schenectady. George Holtzmann is Supt. of W.-Wks.

GENEVA, N. Y.—The Board of Public Works is considering the proposition to improve the water supply at a cost of $162,000. This amount is divided into four propositions, as follows: For construction of a complete filtration plant, $40,000; a 20-in. force main from pumping station to reservoirs, the acquirement of the necessary rights-of-way, connections and the like, $57,000; for construction of new concrete storage reservoir, 75 ft. above the present reservoirs and necessary connections, $30,000; for new pump with a daily capacity of 4,000,000 gallons, additional boiler capacity, new intake pipe and crib in the lake, $35,000. James Brennen is City Engr. Noted on May 26.

HINCKLEY, N. Y.—F. C. Stev[illegible] Supt. Public Works, has awarded to the B[illegible]FALO DREDGING CO., D. S. Morgan B[illegible] Buffalo, N. Y., Barge Canal Contrac[illegible] 50, providing for the construction of a [illegible]rvoir and dam on West Canada Creek a[illegible]ckley, for $963,415. The Engineer's [illegible]mate was $1,076,000.

KEESEVILLE, N. Y.—New bids [illegible] to be called for by the Board of Water [illegible]missioners for the construction of [illegible]ater-supply reservoir and laying abou[illegible] ft. of 10-in. c.-i. pipe. J. B. Mace [illegible] Pres. J. E. Cashman, of Burlington, Vt., [illegible] the lowest bidder for the construction [illegible] 1910, when bids were received on Aug. [illegible]

NEW YORK, N. Y.—Bids were [illegible]ceived until 2 p. m., Sept. 21, by [illegible] S. Thompson, Comr. of Water Sup[illegible] Gas and Electricity, for hauling an[illegible]ying water mains and appurtenances an[illegible]moving existing water mains in Frankl[illegible] Hegeman and New Lots Aves.

SOMERVILLE, N. J.—Preliminary [illegible]veys have been made for municipal wat[illegible]works. Nicholas S. Hill, Jr., Engr., 100 Willi[illegible] St., New York, N. Y., has submitted a report on four projects, as follows: (1) Pumped, filtered surface supply from the North Branch of the Raritan River, near North Branch Depot, cost $218,915. (2) Gravity unfiltered surface supply from the North Branch of Rockaway Creek, near Mountainville, cost $377,655. (3) Gravity filtered surface supply from the Black or Lamington River at a point about 1¼ miles north of Pottersville, cost $389,071. (4) Pumped, filtered and softened, underground water supply from wells located on the Raritan River, near Finderne Station, cost $222,883. A public meeting is to be held to decide whether or not to accept one of the proposed plans for a municipal plant. Charles C. Kenyon is Mayor.

HIGH BRIDGE, N. J.—The contract for extension of the water-works has been awarded to the LEHIGH ENGINEERING-CONTRACTING CO., Real Estate Trust Bldg., Philadelphia, Pa., at $22,320, plus $100 per acre for clearing and $2.75 per yd. for rock. This bid covered 12-in. c.-i. pipe. The work includes enlarging present storage reservoir, building catchment reservoir with forebay and laying approximately three miles of main. E. A. Stevens & Co., 1 Newark St., Hoboken, are Engrs.

ELIZABETHTOWN, PA.—See item under Streets and Roads.

BALTIMORE, MD.—The Board of Awards has awarded contract to the THOMAS C. BASSHOR CO., 28 Light St., Baltimore, at $20,368 to construct a pipe-line system at Bayview Asylum.

CUMBERLAND, MD.—The City Commission has engaged James H. Fuertes, 140 Nassau St., New York, as consulting engineer in connection with construction of water-works. The Legislature has authorized a $500,000 bond issue.

*WASHINGTON, D. C.—Bids are asked until 2 p. m., Sept. 22, by the District Commissioners for furnishing fire hydrants.

KEYSER, W. VA.—The city has awarded a contract to W. A. LILLER, 50 Mineral St., Keyser, at about $25,000 to construct a concrete core dam with capacity of 30,000,000 gallons of water. Noted last week.

WHEELING, W. VA.—LEWIS & WOOD, of Pittsburg, have been awarded the contract for the erection of the Wheeling Traction Co.'s pump house at 42d St. The franchise for the erection of the building has been granted by the city and the government permit for laying the intake main into the Ohio River has been received. Work on the structure will start soon. George O. Nagle is Gen. Mgr.

SPARTA, GA.—About $40,000 will be expended for improvements to water-works and sewers. Watton & Wagner, of Atlanta, Ga., are Engrs.; J. D. Walker, Mayor; W. H. Stansell, City Clerk.

ALTO, GA.—Bids will be received until Sept. 30 by the Executive Committee of the State Tuberculosis Sanitarium, 708 Gould Bldg., Atlanta, W. G. Raoul, Chn., for furnishing f. o. b. cars Alto, water-works, sewer and electrical materials.

FORT MYERS, FLA.—The city has voted issuance of $15,000 of bonds for construction of water-works.

CLEARWATER, FLA.—The city has awarded a contract to CAMERON & BARKLEY CO., of Tampa, Fla., for pumping equipment, consisting of two 25-HP. electric engines direct connected to two 300-gallon-per-minute triplex pumps.

JACKSONVILLE, FLA.—The Board of Bond Trustees has authorized the readvertisement for bids for construction of the proposed 3,000,000-gallon reservoir. R. N. Ellis is Supt. of Water-Works. Noted on June 2.

HARTSELLE, ALA.—The work to be paid for by the city water-works $28,000 bond issue will include construction of a 40 x 60-ft. brick and cement reservoir of 50,000 gallons capacity; also installation of boilers, pumps and engines. The date of opening bids has not been set. The plans have been prepared by Xavier A. Kramer, Magnolia, Miss. Noted on Sept. 8.

OPELIKA, ALA.—Bids were received on Aug. 31 by L. F. Dickson, Mayor, for furnishing material and constructing water-works and electric light plant from plans of J. B. McCrary Co., Empire Bldg., Atlanta, Ga., and contracts have been awarded as follows: Engine, 4-valve, ERIE ENGINE CO., $2,950; generator, FORT WAYNE ELECTRICAL WORKS, Fort Wayne, Ind., $3,250; street lights, WESTERN ELECTRIC CO., $1,118; transformers, WESTINGHOUSE ELECTRIC & MFG. CO., $1,[illegible]; steam pumps, HENRY R. WORTHINGTON CO., 115 Broadway, New York, $1,650, and same company heater and feed pump, $307; centrifugal pump and motors, PLATT IRON WORKS CO., $1,028; boilers, CASEY HEDGES CO., $2,250; sand pipe, CHATTANOOGA BOILER & TANK CO., $3,804; cast-iron pipe and specials, U. S. CAST IRON PIPE & FOUNDRY CO., at $21.60 per ton

on pipe and $50 per ton on specials; total, $26,723; valves, CRANE CO., $811, and hydrants, R. D. WOOD CO., $2,011.

*LOUISVILLE, KY.—Bids are asked until 11 a. m., Sept. 27, by the President of the Board of Water Works at the office of the Louisville Water Co., Inc., for constructing an intake crib and screen tower. Theodore A. Leisen is Ch. Engr. and Supt. of the company.

PORT CLINTON, OHIO.—Bids are asked by the Board of Trustees of Public Affairs until Sept. 22 for constructing a filtration plant for the municipal water-works system here. We are officially advised that bids are being asked for the entire construction, including low-service pumps, coagulating basins, filters, clear well, filter water reservoir, coagulating devices, wash water pump and air blower. It is to be a mechanical filtration plant, having a daily capacity of 1,500,000 gallons. Scott Stahl is Pres. Bd. of Trustees of Public Affairs; William G. Clark is Consult. Engr., Spitzer Bldg., Toledo, Ohio.

DUNKIRK, IND.—We are officially advised that plans are completed for the Dunkirk water-works system and bids will be received soon. The work consists of constructing a brick pumping station, gasoline engine and pump, 50,000-gallon water tank and tower and laying about 19,000 ft. of water mains. Charles Brossmann, Union Trust Bldg., Indianapolis, Ind., is Engr.

CENTERVILLE, MICH.—Vance I. Gray, 226 Huron St., Toledo, Ohio, is preparing plans for a new water-works and electric light plant for the Centerville Water & Light Co., F. W. Thomas, Secy., 1919 Monroe St., Toledo, Ohio.

GRAND RAPIDS, MICH.—Contracts for installing pumping machinery in connection with filtration plant, from plans of Hering & Fuller, 170 Broadway, New York, N. Y., have been awarded to the FORT WAYNE ELECTRIC WORKS, Fort Wayne, Ind., for Buffalo steam pumps and Fort Wayne motors, at the following bid: Three vertical centrifugal pumps with electric motors, each of a capacity of 5,600 gallons per minute, average lift 26 ft., $6,206; two vertical centrifugal pumps with electric motors, each of a capacity of 2,900 gallons per minute, average lift 26 ft., $2,945; two vertical centrifugal pumps with electric motors, each of a capacity of 1,000 gallons per minute, average lift 38 ft., $2,495; one vertical centrifugal sump pump, complete, capacity 180 gallons per minute, average lift 15 ft., $597; wiring, etc., $182. Total, $12,425. L. W. Anderson is City Engr.

SIOUX CITY, IOWA.—Bids are asked by the City Clerk until 9 a. m., Sept. 17, for one 16-in. well, a pumping station and one electrically driven turbine pump and one horizontal centrifugal pump.

MANKATO, MINN.—FAIRBANKS, MORSE & CO., 481 Wabash Ave., Chicago, Ill., have been awarded a contract by the city of Mankato, Minn., for the installation of about 2,690 ft. of 6-in. water mains, 372 ft. of 10-in. water mains and necessary hydrants for $3,571. Bids were received on Aug. 22.

FARMINGTON, MINN.—Bids are asked by the Village Council until 8 p. m., Sept. 26, (a) for five 5-in. open end driven wells, average depth about 30 ft., each well to be fitted with well strainer; (b) for one pump house; (c) for one triplex pump, 160 gallons per minute capacity, with gasoline engine to operate same, and sufficient to give fire pressure of 100 lbs.; (d) for steel tank, 50,000 gallons capacity, on tower, extreme height 100 ft.; (or in place of Items B, C and D, a compressed air system, 350,000 gallons daily capacity, 50 lbs. domestic service capacity, 100 lbs. fire pressure); (e) 440 ft. 8-in. water mains, 2,200 ft. 6-in. water mains, 7,000 ft. 4-in. water mains, 20 fire hydrants, with other necessary appliances. L. A. Whittier is Village Recdr.

MISSOULA, MONT.—Contracts have been awarded for improvements at Fort Missoula as follows: JOHN P. GRADY, Missoula, water distributing system, to be completed in three months, $16,000; J. P. ADAMSON, St. Paul, sewer system, to be completed in four months, $15,820; P. A. HARRINGTON, Missoula, reinforced-concrete pumping plant building, $3,700; ANACONDA COPPER MINING CO., Butte, pumping machinery, $6,975; MERICLE-TRIPP CO., Missoula, walks and curbs, $5,303.

KANSAS CITY, MO.—The Fire and Water Commissioners have decided on a site for the proposed intake for the water-works at Quindaro, Kan. The intake will be of solid concrete, with three separate compartments, and will cost, it is estimated, $100,000. The excavation will be 30 ft. below river bed. The old intake will be retained. Plans and specifications are being prepared and bids will be invited soon. To protect the new intake, bids will also soon be invited for construction of about one mile of revetment to cost about $100,000. The new intake will complete the duplication of water-works facilities for supplying the distributing system. Thos. T. Crittenden, Jr., is Mayor.

SEARCY, ARK.—The City Council has awarded a contract to D. C. BROOKS & SONS, Kansas City, Mo., to construct water-works here. Estimated cost, $50,000.

HEARNE, TEX.—The city of Hearne is considering the proposition of voting a bond issue for the purpose of establishing a water-works system.

COMFORT, TEX.—Steves & Stahmank will construct a steel tower 30 ft. high with a 10,000-gallon water tank, pumping apparatus, etc.

HOUSTON, TEX.—It is announced by H. B. Rice, Mayor, that in addition to a ship channel bond issue of $1,250,000 for deep water to this city, the proposition of erecting a viaduct to cost about $397,000 will also be voted on soon. The proposed viaduct will be over Main St. The date for the election has not yet been announced.

LAWTON, OKLA.—The following bids were received on Aug. 24 for water-works improvements here: For (a) dam on Medicine Creek; (b) Squaw Creek improvement; (c) North Addition water-works: L. B. Kinsey, Enid, Okla., (a) $51,108, (b) $38,347, (c) $49,163; Sherman Machinery Co., Oklahoma City, (a) $67,193, (b) $45,918, (c) $41,100; C. H. Shaw, Lawton, Okla., (a) $46,935, (b) $59,403, (c) $39,795; Oklahoma Engineering Co., Anadarko, Okla., (a) $48,800, (b) $37,923, (c) $35,659.

DURANGO, COLO.—The Florida Mesa Irrigation District has awarded the contract for constructing an irrigation system to the PIONEER CONSTRUCTION CO., of Durango, at $1,000,000. W. P. Reeder is Secy.

CHEYENNE WELLS, COLO.—The contract for constructing water-works has been awarded to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, at $4,990. E. J. Cuydal is City Clerk. Noted on Aug. 25.

FLORENCE, COLO.—A. B. McFall, of Florence, is engineer for the Hardscrabble Irrigation District, which is to be located about six miles south of Florence. It is proposed to construct a dam at Babcock's Hole, about 14 miles from Florence, to have a capacity of 12,600 acre-ft. Cost of proposed work, about $782,000. W. H. Funderburk, of Greenwood, is Secy. of District.

DENVER, COLO.—The city has voted bonds to the amount of $8,000,000 to construct a municipal water plant. Federal Judge Lewis Monday issued a temporary injunction preventing the issuance of such bonds until their legality could be passed upon. John B. Hunter is Ch. Engr., Bd. of Public Works

LAS VEGAS, N. MEX.—Metcalf & Eddy, 14 Beacon St., Boston, Mass., Consult. Engrs. for the Aqua-Pura Co., of Las Vegas, have completed plans and specifications for an arched concrete dam for the proposed storage reservoir of the company, it is stated. The dam is designed with an ultimate height of 95 ft., but it will only be erected to a height of 50 ft. at present; it will be of either reinforced concrete or of rubble masonry. The design will be 15½ ft. wide at the base and with the concrete dam 4 ft. wide at top, and the masonry dam 6 ft. wide at top. It will be built with a radius of 250 ft., the vertical face of the dam being upstream; total cost estimated at about $40,000; it will furnish storage space for approximately 60,000,000 gallons.

LORDSBURG, CAL.—We are officially advised that the city of Lordsburg will install a municipal water system at a cost of $36,000. Olmsted & Gillelen, Wright & Callender Bldg., Los Angeles, are Engrs.

CORNING, CAL.—The Town Trustees have adopted an ordinance providing for the issue of $48,000 of bonds for water-works and $21,000 for a sewer system. F. E. Kenney is Mayor; E. L. Randall, City Clk.

VISALIA, CAL.—We are officially advised that the City Council has awarded the contract for the Mill Creek conduit, at $54,000, to RICHARD KEATINGE & SONS, 693 Mission St., San Francisco, Cal. The conduit will be constructed entirely of reinforced concrete and will carry 700 cu. ft. per second.

YUMA, ARIZ.—Bids will be received until Sept. 30 by the Board of Supervisors of Yuma County for the construction of certain concrete houses and concrete reservoir on the county poor farm grounds. Plans and specifications have been prepared by Ben F. De Corse, Yuma. P. J. Miller is Clerk of Bd.

PHOENIX, ARIZ.—The Secretary of the Interior has executed a contract with the Salt River Valley Water Users' Association, providing for the construction by the latter of certain features of the Salt River irrigation project, Ariz., the works upon completion to be turned over free to the United States as a portion of the project. The contract calls for the enlargement of the Grand Canal and its extension to connect with a cross-cut from the Arizona Canal, the construction of canals and pipe lines and power plants sufficient to generate a total of 9,700 HP. at a total cost not to exceed $900,000. The United States agrees to furnish such rights-of-way as may be required and the services of competent engineers to supervise the work. The work is to be completed in two years.

SALT LAKE CITY, UTAH.—George F. McGonagle, City Engr., has plans ready for the proposed 18-in. north bench water main and there is money enough in the Water Bond Fund to pay for the work, which will cost approximately $135,000, it is stated. The water from the present 12-in. main will be used in the neighborhood of Capitol Hill, while the new main, with its pressure of 80 lbs., will supply all of the north bench as far down as South Temple St., and in emergency cases further south. The new line will run from a point 1½ miles above the present high-line intake to 13th Ave. The water will come from near the snow line. In length, the line will be 19,000 ft. It is the intention of the Council to have the work started before spring.

SEWERS.

(**Denotes that this work is advertised in Engineering News.*)

QUINCY, MASS.—A contract for sewer construction has been awarded by the Metropolitan Water and Sewerage Board to JOHN CASHMAN & SONS CO., of West Quincy, at $9,371. Other bidders were: Commonwealth Construction Co., $10,800; Rowe Contracting Co., $11,200; D. F. O'Connell, $12,150; Bryne Contracting Co., $12,200; John J. Falvey, $12,688; Thomas Bruno, $13,500; John A. Costello & Co., $19,168.

DUNKIRK, N. Y.—The Common Council will soon award contracts for the construction of sewers in West Front St., Bingham Road and an extension of the Deer St. sewer from Front St. to the lake.

BUFFALO, N. Y.—The Common Council has ordered the construction of a 15 and 12-in. tile sewer in Norris St., from Hertel Ave. north to Race St., and authorized Francis G. Ward, Comr. of Public Works, to prepare specifications and advertise for bids.

TROY, N. Y.—Bids will be received by the Board of Contract and Supply until 11 a. m., Sept. 23, for constructing the following sewers: In Parmenter Ave., from Spring Ave. to Fales Court; in the alley between Seventh and Eighth Aves, from 13th to 14th Sts.; in the alley between Sixth and Seventh Aves., from 11th to 12th Sts.; in Russell St., from South to Farm St.; in 13th St., from South St. to present sewer. James M. Riley, Secy.

BUFFALO, N. Y.—Plans are being prepared for the readjustment of the present sewer system. George H. Norton, Engr., estimates the cost from $3,000,000 to $4,000,000.

FOREST HILLS (Flushing post-office), N. Y.—The contract for the construction of the 42 and 48-in. reinforced-concrete stone water drain sewer, for the Sage Foundation Homes Co., has been awarded to D. CUOZZO, Park Row Bldg., New York. Work to be completed in 75 days.

ROCHESTER, N. Y.—The contract for the construction of a sewage disposal plant for the Monroe County Tuberculosis Hospital has been awarded to BERT WARREN, of Honeye Falls, N. Y., at $5,400.

*ATLANTIC CITY, N. J.—Bids will be received by the City Council until 8 p. m., Sept. 26, for the construction of a storm water system consisting of 200 ft. of reinforced-concrete conduit 10 × 15 ft.; 9,450 ft. reinforced conduit, 9 × 10 ft.; 964 ft. concrete brick and terra cotta pipe, 2 × 5 ft.; also 10,390 ft. of lateral drains consisting of brick and conrete together with manholes. E. D. Rightmire is City Engr.

*PLAINFIELD, N. J.—Bids will be received by the Common Council until 8 p. m., Oct. 3, for the construction of sanitary sewers and pumping stations, including 12,140 ft. 8-in. vitrified pipe sewer, 5 to 10 ft. deep; 2,125 ft. 8-in. c.-i. pipe sewer, 5 to 12 ft. deep; 1,170 ft. 10-in. c.-i. pipe sewer, 5 to 16 ft. deep; 3,645 ft. 8-in. c.-i. force main; 1,520 ft. 4-in. vitrified pipe. James T. MacMurray is City Clerk.

CHATHAM, N. J.—A contract has been entered into between Chatham and Madison for the construction of a joint sewage disposal plant and trunk sewer. Bids for the construction of the disposal plant will be received until Sept. 19, at the Chatham municipal building.

*SUMMIT, N. J.—Bids will be received by the Common Council until 8.30 p. m., Sept. 20, for laying 4,960 ft. of 8 and 10-in. sewer pipe in Springfield Ave. and Tulip St. John S. Stiger is City Engr.

*WOODBURY, N. J.—Bids will be received by the City Council until 8 p. m., Sept. 27, for the construction of about 7,700 ft. of 8-in. sewer pipe, together with manholes, flush tanks and pumping station equipment; also 1,100 ft. of 6-in. c.-i. force main. Arthur Starr is City Clerk.

BRIDGTON, N. J.—Plans are being prepared by Clyde Potts, 30 Church St., New York, for the construction of a trunk sewer which will cover practically the entire city. Jacob B. Jones is City Clerk.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners until Sept. 22 for the construction of a 10-in. pipe sewer in Warwick St. M. R. Sherrerd is City Clerk.

WEST VIEW, PA.—Bids will be received until noon, Oct. 1, for the construction of a trunk sewer and disposal plant. Plans and specifications have been prepared by Trimble & Miller, Engrs., Fourth Ave., Pittsburg, Pa. H. L. Donaldson, Secy., will receive all bids.

SHARON, PA.—Plans are being prepared for the construction of a sanitary sewer system and disposal plant for the city.

MEADVILLE, PA.—Bids will be received until Sept. 17 by the Common Council for the construction of a sanitary sewer in Steers and Plum alleys. Fred C. Kiebort is City Clerk.

NEWARK, DEL.—Plans are being prepared by Wilbur Wilson, City Engr., for the construction of sewers at a cost of $30,000. T. H. Chambers is City Clerk.

CANTON, OHIO.—The contract for constructing Liberty St. and Saxton St. storm sewer has been awarded to TURNBULL & DEHN, of Canton, at $25,528. P. H. Weber is City Engr.

HAMILTON, OHIO.—The Hall-Cronan-Dayton Co., of Dayton, Ohio, were the only bidders for the construction of a storm sewer in Central Ave. Estimated cost, $23,000. The bid was referred to the City Engineer for tabulation.

YOUNGSTOWN, OHIO.—Bids have been received by the Board of Control for the construction of a sewer in Phelps St., from Lincoln Ave. to West Boardman St., as follows: John Grady, $21,013; Patrick & P. J. Grady, $24,399; W. E. Gartland, $29,425; L. W. De Groot, $24,903, and James McCanon, $25,920. Frank Lillie is City Engr.

MASSILLON, OHIO.—Contracts have been awarded by the Board of Control to FRANK KRAFT for constructing a sewer in Third St. and to VALENTINE NEIDLINGER for the sewer in Thorne and Walter Sts.

OBERLIN, OHIO.—Bids will be received by the Clerk of the Village until noon, Sept. 25, for constructing a sewer in Hollywood St. H. T. Marsh is City Clerk.

PRINCETON, ILL.—Bids will be received until Sept. 23 by J. M. Farrell, City Clk., for laying 3,476 ft. of 15-in. sewer pipe, having an average cut of 14 ft., including twelve manholes and other appurtenances. W. S. Shields Co. are Engrs., 1201 Hartford Bldg., Chicago.

WAUPACA, WIS.—Bids will be received until Sept. 17 by Board of Public Works for constructing sewers and a septic tank. Thomas Morgan is Chn.

JANESVILLE, WIS.—The contract for the laying of 5,933 ft. of sewer pipe in various streets has been awarded to ANDREW THOMSEN, of Racine, Wis. G. D. CANNON, of this city, was awarded the contract for curbing at 48 cts. per ft.

BRITON, IOWA.—Bids will be received until Sept. 20 for laying 1,600 ft. of 8-in. sewer pipe, together with manholes and flush tanks. Nathan B. Barber is the Engr.

VINTON, IOWA.—Bids will be received until Sept. 20 by the City Clerk for the laying of about 1,600 ft. of 8-in. sewer pipe, together with three manholes and one flush tank. Work is to be completed on or before Dec. 15. Samuel A. Parsons is Engr.

HAWARDEN, IOWA.—The contract has been awarded to ROBERTS & FEW, of Brookings, S. Dak., for the following: 2,550 ft. 12-in. sewer pipe, $1.20; 800 ft. 10-in., 90 cts.; 15,000 ft. 8-in., 70 cts.; 46 manholes, each $60; lumber, per M. ft., $40; syphon, complete, $305; flood gate, $49; total, $16,914. Other bidders were: Lewis & Leeder, Sioux City, $16,982; J. J. Dunnegon, Shenandoah, $17,595; J. W. Turner Improvement Co., Des Moines, $17,997; Tibey Bros., Emmettsburg, $19,000.

CLOQUET, MINN.—Bids will be received until Sept. 19 by J. A. E. Grenier, City Clk., for approximately 7,000 ft. of 6-in. c.-i. water pipe, 7,000 ft. 8-in. sewer pipe, 18 manholes, excavating and back filling approximately 7,400 cu. yds. of earth and rock.

DULUTH, MINN.—The contract has been awarded to ADAM McADAM by the Board of Public Works for constructing a sewer in 59th and 60th Alleys, Fifth Division, at $8,180.

GRAND FORKS, N. DAK.—Contracts have been awarded by Charles J. Evanson, City Audr., to J. M. CARROLL & SONS as follows: Water Main Extension No. 71, Lateral Sewer No. 12, District 4; Lateral Sewer No. 4, District 10, and Lateral Sewer No. 14, District 5. H. G. Lyken is City Engr.

MISSOULA, MONT.—See item under Water Supply—Irrigation.

SPRINGFIELD, MO.—Plans are being prepared by the City Engineer for the construction of a sewer in District No. 32. It will include about 1,100 ft. of sewer pipe.

OKLAHOMA CITY, OKLA.—Bids will be received by Bob Parman, City Clerk, until 5 p. m., Sept. 19, for the construction of a sewer in 21st St., from the east line of Robinson Ave. to Broadway, and in the Santa Fe right-of-way, from Eleventh St. to Park Pl. Plans and specifications are on file in the office of the City Clerk.

OLYMPIA, WASH.—The City Council has passed an ordinance providing for the improvement of certain portions of streets by the construction of a trunk sewer, according to plans and specifications of E. L. Van Eppe, City Engr.

SPOKANE, WASH.—Bids will be received until Sept. 22 by the Board of Public Works for constructing the Fifth Ward trunk sewer, District No. 10. George W. Armstrong is Secy.

BIGGS, CAL.—Plans are being prepared by F. W. Haselwood, of San Francisco, for the construction of a sewer system and disposal plant for the city. Estimated cost, $15,000.

PASADENA, CAL.—The contract has been awarded by the City Council for the construction of a storm sewer under Broadway from south city limits to Walnut St., to M. L. HOSTETTER, of Los Angeles, at $162,800. Other bidders were: Westlake Construction Co., of Los Angeles, $166,215; Andrew Holloway, of Pasadena, $174,000. The sewer will be 7 × 10 ft. and 14,500 ft. in length, and will be of reinforced concrete. S. J. Van Ornum is City Engr.

PASADENA, CAL.—The City Council has awarded the contract for constructing a sewer in Haill, Chester, San Pasqual and Division Sts. to PETER GRIBAVACH, at $9,190. Also for sewer to be constructed in El Molino, Van Wyck, Prescott, Washington and Douglas Sts., to CHAMBERLAIN & WILLIAMSON, at $5,000. Heman Dyer, City Clerk.

ONTARIO, CAL.—The City Council has passed a resolution to construct a vitrified pipe sewer in the alley between Grove and Nevada Sts. and between Lemon and Cherry Aves. R. O. Brackenridge is City Clerk.

OCEAN PARK, CAL.—The City Council has passed an ordinance for a sewer to be constructed in Fifth and Pennsylvania Sts. G. A. Murray s City Clerk.

OAKLAND, CAL.—Bids will be received until Sept. 21 by W. B. Fawcett, Secy. Bd. Pub. Wks., for constructing a stone sewer in San Pablo Ave.

SALT LAKE CITY, UTAH.—The contract for the constructin of city sewers has been awarded DALE L. PITT, at $6,000. George F. McGonagle is City Engr.

SWIFT CURRENT, SASK.—The contract for laying sewers and water mains and constructing sewage disposal works has been awarded to LAIDLAW & MAC DONALD, of Fort William, Ont., at $39,180 and $8,290, respectively. Other bidders were: M. A. Pigott & Son, Kenora, Ont., $49,739 and $11,801; S. E. McManus & Son, North Battleford, Sask, $87,457; Broley & Martin, Fernie, B. C., $71,535 and $11,138; H. G. McVean, Moose Jaw, Sask, $62,673, and W. I. Gray & Co., Winnipeg, $59,000.

VANCOUVER B. C.—See item under Streets and Roads.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids will be received until 11 a. m., Oct. 1, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for vitrified brick paving at the Navy Yard, Boston. William M. Smith is Acting Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

BOSTON, MASS.—The following bids were received by Harold A. Parker, Chn. of Massachusetts State Highway Comn., on Sept. 6, for constructing a state highway in Erving: L. C. CARCHIS, $8,711 (awarded contract); F. J. Mague, $8,995; A. Deppolito and D. De Pietro, $9,654; R. F. Hudson, $10,366; M. L. Camarco, $12,105 and Thomas Bruno, $12,232.

The following bids were received on Sept. 6 by Harold A. Parker, Chn. Highway Comn., for constructing a state highway in Franklin: C. E. HORNE, $5,273 (awarded contract); Snow & Farrington, $5,612; A. Deppolito and D. De Pietro, $5,901, and H. L. Thomas, $6,525.

NEW YORK, N. Y.—Bids will be received until 2 p. m., Sept. 23, by George McAneny, Pres. Boro. of Manhattan, for maintaining the asphalt pavement on various streets.

Bids will be received by George McAneny, Pres. Boro. of Manhattan, until 2 p. m., Sept. 23, for regulating and repaving with sheet asphalt on concrete foundation the roadways of various streets.

The following bids were received on Sept. 12 by Cyrus C. Miller, Pres. Boro. of Bronx, for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Jerome Ave., from 190th St. to a grade point about 600 ft. north of Van Cortlandt Ave.: L. J. Moran, $89,028; S. Ermana, $70,022; J. B. Malatesta, $71,638; John J. Shea, $80,081; J. C. Rogers, Jr., $56,442; W. F. McElroy, $55,344; Soraci Contracting Co., 170 Broadway, $77,540; Stalwart Construction Co., $67,793.

NEW YORK, N. Y.—Bids will be received until noon, Sept. 20, by George Cromwell, Pres. Boro. of Richmond, for furnishing all the labor and materials required for regulating and repaving with bituminous concrete pavement on a concrete foundation the roadway of Brighton Ave., from Jersey St. to Glen Ave., and on the present macadam foundation the roadway of Brook St., from Broad St. to Water St., together with all work incidental thereto.

NEW YORK, N. Y.—Bids will be received by George Cromwell, Pres., Boro. of Richmond, until noon, Sept. 20, for furnishing all the labor and materials required for regulating and repaving with bituminous concrete pavement on a concrete foundation the roadway of Brighton Ave., from Jersey St. to Glen Ave., and on the present macadam foundation the roadway of Brook St., from Broad St. to Water St., together with all work incidental thereto.

Bids will be received until 11 a. m., Sept. 21, by Alfred E. Steers, Pres. Boro. of Brooklyn, for furnishing and delivering 200 tons of refined asphalt to be delivered to the municipal asphalt plant at the Seventh St. Basin, between Sixth and Seventh Sts., near Second Ave.; for regulating, grading, curbing and laying sidewalks on Church Ave., from Gravesend Ave. to 36th St., together with all work incidental thereto; for regulating, grading, curbing and laying sidewalks on 59th St., from Twelfth Ave. to 13th Ave., together with all work incidental thereto.

NEW YORK, N. Y.—The following bids were received by Kingsley L. Martin, Comr. of Bridges, on Sept. 8, for laying and relaying water and gas mains and grading and paving streets, adjacent to the Municipal building: Goodman Contracting Co., $99,000; H. E. Fox, 81 East 125th St., $88,000; Snare & Triest, 143 Liberty St., $71,700; Haggerty & Drummond, $108,736; Thomas Dorpy, $85,500; Fox Hennessey Co., 81 East 125th St., $82,802.

*AUBURN, N. Y.—Bids will be received until 8 p. m., Sept. 20, by Thomas H. O'Neill, Mayor, for paving Osborne St. with Medina sandstone block, and 1,800 lin. ft. of Medina sandstone curbing. J. S. Hanlon is City Clk.

TROY, N. Y.—Bids will be received until 11 a. m., Sept. 23, by the Board of Contract and Supply, for paving, regulating, curbing and grading Sixth Ave., from Congress St. to Ferry St. James M. Riley is Secy. of Board.

BUFFALO, N. Y.—Bids were received on Sept. 3 by Francis G. Ward, Comr. of Pub. Wks., for paving streets as follows: Barton St., German Rock Asphalt & Cement Co., Ltd., D. S. Morgan Bldg., asphalt, $6,290; H. P. Burgard, brick, $5,000. Ledger St., German Rock Asphalt & Cement Co., Ltd., asphalt, $6,648; Constantine Construction Co., brick, $5,300. Princeton Pl., German Rock Asphalt & Cement Co., Ltd., asphalt, $6,420; H. P. Burgard, 275 Lathrop St., Buffalo, brick, $5,100; Rano St., F. V. E. Bardol, D. S. Morgan Bldg., Buffalo, asphalt, $4,944; H. P. Burgard, brick, $3,800; Republic St., German Rock Asphalt & Cement Co., Ltd., asphalt, $12,920; H. P. Burgard, brick, $11,000; Vandalia St., H. P. Burgard, asphalt, $4,000; H. P. Burgard, brick, $3,000; German Rock Asphalt & Cement Co., Ltd., Medina stone, $4,930.

ROCHESTER, N. Y.—On Sept. 1 the contract for brick pavement in Genesee St., between Brooks and Elmwood Aves., was awarded to WHITMORE, RAUBER & VICINCUS, 279 South Ave., Rochester, at $21,541, by the Board of Contract and Supply.

The Board of Contract and Supply has awarded the contract for brick pavement in Arnett St., to HAGAMAN, MILLER & HAGAMAN, 16 State St., Rochester, at $52,012.

SCHENECTADY, N. Y.—The contract for paving Wall St. was awarded on Aug. 31 to the SCHENECTADY CONTRACTING CO., 332 State St., and the contracts for laying water mains in Maxon Road and for sidewalks in Broadway were both awarded to BECKWITH BROS., 119 La Fayette St., by the Board of Contract and Supply.

TROY, N. Y.—The following bids were received by the Board of Contract and Supply for grading and paving Twelfth St., Lansingburgh, from the Hudson River to Fifth Ave. The bidders were: Walter E. Hassam, new curb, $1; relaying old curb, 40 cts.; granite block pavement, $3.15; concrete cement pavement, $2. John H. Gleason Co., new curb, 90 cts.; catch basins, $89; granite block pavement, $3; brick, $2.27; sheet asphalt, $2.70; concrete cement pavement, $1.90; McKenna & Walsh, new curb, 90 cts.; catch basins, $120; brick pavement, $2.29. The bids were referred to the Secretary.

*SCARSDALE, N. Y.—We are officially advised that the contract for resurfacing with a bituminous macadam the highway known as the New York Post Road in Scarsdale, has been awarded to W. H. McCABE, of White Plains, N. Y. The Town Board has decided to increase the width of the road, making the cost $20,000, instead of the original bid of $18,000. Bids were received on Sept. 12. Frank Sibley is Town Clk.

NEWARK, N. J.—The contract for grading and curbing South Twelfth St. has been awarded to WM. BALLARD, his price for excavation being 35 cts. per cu. yd., and 60 cts. per lin. ft. for 20 × 4-in. bluestone curb, set in concrete. The total amount is $4,440.

Bids will be received by the Board of Street and Water Commissioners of the City of Newark, City Hall, on Sept. 15, for paving Treat Pl. with asphalt block pavement on a 6-in. concrete foundation. G. Sanzenbacher is Supt.

NEWARK, N. J.—Bids were received on Sept. 8 by the Board of Chosen Freeholders of Essex County for the paving with telford of Pleasant Valley Way extending from Bloomfield Ave. in Verona to Mountain Ave. in West Orange, a distance of about four miles. The contract has been let to ROBERT DORIETY at $29,626.

*SUMMIT, N. J.—Bids will be received until 8 p. m., Sept. 20, by the Common Council for the construction of 2,700 ft. of cement sidewalk on the southerly side of Springfield Ave., from Blackburn Road to High St. J. E. Rowe is City Clk.; John S. Stiger is City Engr.

VINCENTOWN, N. J.—Bids were received on Sept. 6 by William T. Joyce, Clk. Southampton Township Com., Vincentown, for building a stone road from Smalley's corner, at South Pemberton, Stone Road, and running southerly to the Buddtown Road, in Vincentown. The contract has been awarded to E. C. HUMPHREY, of Hackensack, at $22,452. Earl Thomson, 301 Market St., Camden, is Engr.

ALLENTOWN, PA.—Bids will be received at the office of Charles O. Hunsicker, Mayor, until 7 p. m., Sept. 20, for approximately 13,070 yds. of paving, for the following streets: West St., from Hamilton to Chew Sts., 3,960 sq. yds.; Ninth St., from Liberty to Washington Sts., 5,530 sq. yds.; Washington St., from Seventh to Ninth Sts., 3,580 sq. yds.

ELIZABETHTOWN, PA.—The Masonic Home Committee of the Grand Lodge of Pennsylvania at Elizabethtown, awarded to JOHN GOLL & CO., 1539 Filbert St., Philadelphia, the contract to construct a water plant, build a macadamized road, construct a concrete bridge over Conoy Creek and lay two miles of cobble gutters. The total amount is $51,676.

CHESTER, PA.—A 60 to 80-ft. boulevard, to run parallel with the Delaware River, from one end of the city line to the other, a distance of about 3½ miles, is to be constructed, according to reports. Frank W. Harrison is City Clk.

ERIE, PA.—The contract for constructing 10,000 ft. of concrete curbing gutter has been awarded to LININGER & BENNETT, of Conneaut, Ohio. Work is to be started at once.

YORK, PA.—The contract has been awarded by the City Council to the STANDARD BITULITHIC PAVING CO., of York, for paving Duke St., from Gay Alley north to North St., at $2.23 a sq. yd.

AMBRIDGE, PA.—The GEORGE B. PATTERSON CO., of East Liverpool, Ohio, has been awarded a $5,000 paving contract at Ambridge, and a $12,000 general contract by the Sewickley, Pa., Borough Council.

FORT DU PONT (Delaware City post-office), DEL.—Bids were received on Sept. 12 for macadamizing a section of Port Penn Road, adjacent to Fort Du Pont, Del., by the Constructing Quartermaster, Fort Du Pont, Deleware City. Del. H. C. CLARK, of Delaware City, the lowest bidder, was awarded the contract for 1,929 sq. yds. at $1.29 a sq. yd.

WASHINGTON, D. C.—Bids will be received until 2 p. m., Sept. 20, by R. G. Alexander, Constr. Q. M., for the construction of concrete sidewalks, gutters, roads, etc., at Washington Barracks.

HUNTINGTON, W. VA.—The Board of Commissioners on Sept. 6 awarded the following contracts: Fourth Ave., from Eleventh to 16th Sts. 14,170 sq. yds. Metropolitan brick, 4,810 lin. ft. of combined curb and gutter, to FRESHWATER & SON, of Chester, W. Va., at $21,241. Seventh Ave., from Tenth to 16th Sts., 14,210 sq. yds. Metropolitan brick and 5,825 lin. ft. of combined concrete curb and gutter, to FRESHWATER & SON, at $21,681. Eighth Ave., from Twelfth St. to a point 230 ft. east of Smith St., 15,220 sq. yds. of Portsmouth granite, 7,300 lin. ft. of combined concrete curb and gutter, to HARRISON & DEAN, of Huntington, at $21,038. 20th St., from Eighth Ave. to Ritter Ave., 8,800 sq. yds. of Portsmouth granite, 4,000 lin. ft. of 6 × 8-in. edging, to HARRISON & DEAN, at $11,056. Van Buren Ave., between 13th and 14th Sts., west, and 13th St., west, from Van Buren Ave. to the C. & O. R. R., 1,650 sq. yds. of Portsmouth granite, 1,180 lin. ft. of edging, to ULLOM & SCANLON, at $2.25. Tenth St., between Sixth Ave. and the C. & O. R. R., 2,430 sq. yds. of Metropolitan brick, 860 ft. of concrete curb and gutter, to FRESHWATER & SON, at $2,642.

*WILMINGTON, N. C.—Bids will be received by the Commissioners of Streets, until noon, Oct. 15, for approximately 93,300 sq. yds. of pavement, and 19,000 lin. ft. of granite curb. Louis S. Belden is Chn.

FORT DADE, FLA.—Bids will be received by the Constructing Quartermaster, U. S. A., until Oct. 5, for constructing roads and concrete walks here.

ST. PETERSBURG, FLA.—A bond election was carried recently amounting to $202,500 for the following work: Streets, $67,500; sewers, $5,000; water-works, $10,000; water-front improvments, $10,000, and fire station, $7,500. M. W. Spencer, City Engr., W. F. Devine, City Clk.

FLORENCE, ALA.—The contract for paving Walnut St. with crushed limestone has been awarded to J. H. ANGEL, of Florence, at $8,000.

LOUISVILLE, KY.—On Aug. 23 the Board of Public Works awarded the contract for paving Lee Ave. to the MARION COUNTY CONSTRUCTION CO., 1600 South West St., Indianapolis, Ind., at $9,900.

CINCINNATI, OHIO.—Bids will be received until Sept. 30 by the Board of County Commissioners, at Cincinnati, for improving Walton Creek Road, Columbia Township, Specification No. 48; resurfacing and oiling Cooper Ave., Sycamore Township, Specification No. 106; improving Gurley Road, Green Township, Specification No. 890, and South Ave. and Werk Road, Green Township, Specification No. 108. Fred. Dreiths is Clk.

CINCINNATI, OHIO.—We are officially advised that the contract for improving the Harrison and New Haven Road has been awarded to the JOHN RUEBEL CONSTRUCTION CO., Hayes Ave., Cincinnati, at $29,267, bids for which were received on Aug. 26. Fred Dreihs is Clk. of Bd. County Comrs.

YOUNGSTOWN, OHIO.—We are officially advised that bids were received by the Board of County Commissioners of Mahoning County on Sept. 6 by W. B. Jones, County Audr., Youngstown, for furnishing the necessary labor and material to grade the hills on Canfield and Ellsworth Road in Section No. 14 of Ellsworth Township, Mahoning County. The contract was awarded to G. W. RIPPLE, of West Austintown, Ohio. The work requires 10,000 cu. yds. of excavation. G. M. Montgomery is City Engr.

AKRON, OHIO.—Bids will be received at the office of the County Commissioners until Sept. 21 for the improvement of South Main St., from the city limits to a point 1½ miles south of Akron, under the provisions of the State Aid Law. J. C. Wonders is State Highway Comr.

MARIETTA, OHIO.—Bids will be received at the office of the County Commissioners until Sept. 20 for grading, macadamizing and paving, with brick, one mile of roadway in Waterford Township, Washington County, under the provisions of the State Aid Act. The estimated cost of the work is $10,998. James C. Wonders is State Highway Comr.

COLUMBUS, OHIO.—Bids were opened on Sept. 3, as follows by the Board of Control for the improvement of North High St., from Fifth Ave. to Doderidge St.: Wood block—U. S. Wood Preserving Co., $114,924; A. G. Pugh, Columbus, $117,923. Asphalt block—William H. Graham, Columbus, $102,526; A. G. Pugh, $111,958. Stone block—A. G. Pugh, Salisburg stone with cement filler, $137,554; Salisburg stone with tar filler, $138,202; Salisbury stone with asphalt filler, $147,398; William M. Graham, granite and Medina stone with tar and cement filler, $149,296; with asphalt filler, $154,156; Salisbury stone with tar and cement filler, $154,156; with asphalt filler, $159,016. Paving with brick—A. G. Pugh, Fultonham block, $77,614; Harris block, $78,586; Portsmouth block, $79,234; Nelsonville block, $80,206; D. & D., $86,038. Paving with sheet asphalt—Andrews Asphalt Paving Co., Bermudez, $70,929; Cleveland Trinidad Paving Co., Cleveland, California Trinidad, $77,138; A. G. Pugh, Cubanel, $81,179; William M. Graham, California, $84,260.

COLUMBUS, OHIO.—The Board of County Commissioners recently awarded the following contracts: FOLEY BROS., for a tar binder on the Chillicothe road, at $8,000; for macadamizing the Clikinger Road, YARDLEY & WILSON, at $4,000.

WAPAKONETA, OHIO.—Bids will be received by Fred A. Klipfel, City Clk., until Sept. 16, for furnishing the necessary labor and materials for paving Park St., from Auglaize St. to the Cincinnati, Hamilton & Dayton R. R. Co.'s tracks and Main St., from Park St. to Perry St.

TOLEDO, OHIO.—Bids were received on Sept. 2 by the Board of County Commissioners for stone road improvement. The contract was awarded to the FRANCE STONE CO., Ohio Bldg., Toledo, at $60,960. Charles Sanzenbacher is County Audr.

The contract for macadamizing the Corduroy Road from Consaul St. to Momineetown will be awarded the second time on Sept. 26. The contract was awarded some time ago, but the contractor failed to complete putting on the stone within the time specified. There are 3½ miles yet to be stoned.

LA FAYETTE, IND.—The Commissioners of Tippecanoe County have awarded contracts for the construction of gravel roads as follows: Frisby road in Washington Township, to JAMES F. PIERCE, at $3,500; The Middleton road in Wabash Township and the Mathier road in Shelby Township, to SNYDER & JENKINS, of Frankfort, Ind., at $4,375 and $3,596, respectively.

INDIANAPOLIS, IND.—The Commissioners of Marion County will receive bids until Oct. 1, for the construction of a gravel road on the county line between Marion and Hamilton Counties. The road [illegible] own as the Nelson Wise road. H. W. [illegible] man is City Engr.

INDIANAPOLIS, IND.—The Bo[illegible] of Public Works has let the contracts [illegible] follows: Washington Boulevard, from 3[illegible] 40th Sts., asphalt roadway, brick [illegible] and curbing, to the UNION ASPH[illegible]O. at $6.51 a ft.; for resurfacing east [illegible]ngton St., to MARION COUNTY CONS[illegible]TION CO., at $4.10 a ft.

MARION, IND.—DAVIDSON & [illegible]HER, of Windfall, Ind., have secured [illegible] contract for paving Ninth St. with macad[illegible] $26,847.

ANDERSON, IND.—Bids will [illegible] received until Sept. 27 by the Board of Co[illegible] Commissioners at Anderson, for g[illegible] and paving, with brick, Pendleton A[illegible] Anderson Township, a distance of [illegible]35 ft. William T. Richards is County A[illegible]

SULLIVAN, IND.—Bids were r[illegible]ed on Sept. 6, we are officially advise[illegible] by the Board of Commissioners of Sulliva[illegible] County, at Sullivan, for the construction o[illegible] stone road in Cass Township. The con[illegible]ct has been awarded to WARD HAWKINS, of Sullivan, at $8,240. Ben C. Crowder is County Audr.

KOKOMO, IND.—Bids will be received until 10 a. m., Sept. 19, by the Board of Public Works, for improving North Webster St., beginning at the south side of Taylor St. and extending north to the south side of Jefferson St., with one of the modern kinds of pavements together with sidewalks and curbs. Jackson Morrow and Henry B. Stewart are members of the Board.

KOKOMO, IND.—The Commissioners of Howard County will receive bids until 2 p. m., Oct. 5, for the construction of a 3-mile gravel road in Honey Creek Township. A. B. Easterling is County Audr.

ANDERSON, IND.—Bids will be received by the Commissioners of Madison County until 10 a. m., Sept. 27, for the construction of a brick road in Anderson Township, about 5,334 ft. in length. William F. Richards is County Audr.

MUNCIE, IND.—We are officially advised that bids were received on Sept. 7 by the Commissioners of Delaware County, at Muncie, for the improvement of highways in Mount Pleasant Township. Joseph E. Davis is County Audr. The contract has been let to DANIELS & LYST, of Anderson, Ind.

CROWN POINT, IND.—We are officially advised that bids were received on Sept. 6 by the Commissioners of Lake County at Crown Point, Ind., for the construction of six gravel roads, five in North Township and one in St. Joseph Township. Charles A. Johnson is County Audr. Contracts have been let as follows: NEJDL & GREENWALD, of Whiting, Ind., Beaubien road, $4,049; Atchison road, $7,550; Cohen road, $15,900. WILLIAM AHLBORN CONSTRUCTION CO., Hammond, Ind., Ottenheauer road, $3,760. DOWNEY & PORTZ, St. John, Ind., Spencer road, $16,400; Keilman road, $19,100.

DETROIT, MICH.—The Department of Public Works, J. J. Haarer, Comr., City Hall, has awarded the contracts for paving the following streets: Parker Ave., from Tontin Ave. to St. Paul Ave., with cedar blocks, to T. E. CURRIE, McGraw Bldg., at $5,343; Waterloo St., from Mount Elliott Ave. to Bellevue, with cedar blocks, to W. W. HATCH & SONS CO., Hammond Bldg., at $7,054; Alley No. 194, from John R. St., to Brush St., to F. PORATH & SON, 378 25th St., at $3,068; Alley No. 195, from Cass Ave., to Elizabeth St., with brick, to JULIUS PORATH, McGraw Bldg., at $831. All on concrete foundation with Medina, Berea or other approved curbing.

CAIRO, ILL.—Bids will be received until Sept. 17 by W. B. Thistlewood, City Engr., for 59,975 sq. yds. of brick paving on Commercial Ave. Estimated cost, $135,410.

CHICAGO HEIGHTS, ILL.—It is stated that the following contracts were recently awarded by the City Council: Lowe Ave., to H. G. MYRICK, of Chicago, at $5,800; Wallace St., to the CHICAGO HEIGHTS COAL CO., Chicago Heights, at $5,975.

EAST ST. LOUIS, ILL.—Bids are asked by the Board of Local Improvements until noon, Sept. 21, for 4,708 sq. yds. of creosoted block paving and 3,022 lin. ft. of granitoid curb on Vogel Pl.; 5,028 sq. yds. of creosoted block paving and 3,212 lin. ft. of granitoid curb on Alhambra Court; 5,310 sq. yds. of creosoted block paving and 3,269 lin. ft. of granitoid curb on 36th St. Frank B. Hanna is Clk. of Bd.

ATLANTIC, IOWA.—We are officially advised that the city received bids on Sept. 8 for three miles of asphaltic concrete paving and six miles of cement curb, etc. S. E. Nichols is City Clk. and Charles [illegible] Chase, of the Iowa Engineering Co., is Engr. Contracts have been awarded to the CAPITAL CITY CONSTRUCTION CO., of Springfield, Ill., at $1.93 per sq. yd. for asphalt paving, and to WILLIAM HONABIN, of Iowa City, at 52 cts. per ft. for curb and gutter.

DULUTH, MINN.—It is stated that the Board Public Works has awarded the contract for paving Irving Pl., Se[illegible]th and Clover Sts. with granitoid blocks, to JOHN A. JOHNSON, at $27,033.

MISSOULA, MONT.—See item under Water-Supply—Irrigation.

CARROLLTON, MO.—The following bids were received by the City Council for brick paving in Carrollton: United [illegible]es Construction Co., $85,301; J. C. LY[illegible]ES, $83,440 (awarded contract); McGu[illegible] Stanton Construction Co., $85,898. W. [illegible] Rosenburg is City Clk.

TAYLOR, TEX.—The contract for the construction of $200,000 worth of macadam roads in Williamson County has been let to the TEXAS BUILDING CO., of Fort Worth. The company has established its camp at Waterloo, four miles north of Taylor. About $50,000 worth of the bonds issued for the improvement work have been purchased by the company. James T. Taylor is Pres.

CHICKASHA, OKLA.—The City Council will let contracts soon for constructing eight miles of cement sidewalks, it is stated.

LEADVILLE, COLO.—The Board Public Works has received the following bids for paving Montclair Parkway: Suburban Paving Dist. No. 1, including 17th Ave., Monaco and Fir Sts., MUNICIPAL CONSTRUCTION CO., $98,750 (awarded contract), and Amasite Road Co., $101,975.

SPOKANE, WASH.—Bids will be received on Sept. 22 by the Board Public Works for improving portions of Bernard, Wall and Lincoln Sts. by grading, curbing and paving with granitoid concrete. Bids will also be received for a 5-year maintenance of said pavement. George W. Armstrong is Secy.

OLYMPIA, WASH.—Bids will be received until Sept. 21 by the State Highway Board at Olympia, for grading, draining, etc., State Aid Road No. 86 in Walla Walla County.

NORTH YAKIMA, WASH.—The Independent Asphalt Co., Seattle Theatre, Seattle, has secured a 5-year lease on a site in this city for the permanent installation of the asphalt plant which is now in use in Spokane. The company has contracts totaling $150,000 for work in North Yakima.

LOS ANGELES, CAL.—C. STAUSBURY, H. W. Hellman Bldg., has been awarded the contract to construct one mile of new streets in one of the Briggs Co.'s tracts at Second and Harvard Sts. The streets will be graded and graveled and cement sidewalks, curbs and gutters will be put in. Cost, $15,000.

Mr. Stausbury also has the contract to improve a tract for the same company at Second St. and Western Ave. This will consist almost entirely of cement work.

The following bids were received recently by the Board of Supervisors for improving a portion of Huntington Drive, 6,000 ft. in length: W. F. Hewett Co., Pacific Electric Bldg., at $7,490, Class A concrete, $8.50 per cu. yd., Class C, $8.25 per cu. yd., reinforcing steel, 3 cts. per lb.; Oscar Ford, bid $9,073, Class A concrete $12, Class C, $10, steel 6 cts. per lb. The bids were taken under advisement.

FORT MASON (San Francisco post-office), CAL.—Bids will be received until 11 a. m., Sept. 16, by Maj. George McK. Williamson, Q. M., U. S. A., for constructing asphalt road between Lombard St. gate and guardhouse, Presidio of San Francisco.

SAN FRANCISCO, CAL.—Bids will be received by the Board of Public Works, David Hewes Bldg., until 10 a. m., Sept. 19, for the following street work in accordance with plans and specifications on file with Board: The improvement of Mission St., from the southwesterly line of Eleventh St. to the northeasterly line of Twelfth St., by constructing granite curbs, block gutters and asphalt pavement. Also for the improvement of Mission St., from the northeasterly line of 13th St. to the northerly line of 14th St., by constructing granite curbs, basalt block gutters, etc.

OXNARD, CAL.—The Patterson Ranch Co., of this city, will construct, by day work, 10,000 ft. of roads throughout the Ranch. The work will be under the supervision of R. Ruott, who is purchasing road machinery for the work.

PASADENA, CAL.—We are officially advised that bids were received on Sept. 6 for 43,000 sq. yds. of oil macadam, as follows: L. A. Bartlett, $43,315; C. A. Baldwin, $51,610; J. M. Montgomery, $51,744; Ott Contracting Co., $52,877. S. J. Van Ornum is City Engr.

RICHMOND, CAL.—We are officially advised that bids were received on Aug. 29 by the City Council for macadam pavement, (a) 12,332 sq. yds. on Fifth St., and (b) 20,533 on Ohio St. The contracts were let as follows: (a) GEORGE GALBRAITH, $13,919; engineer's estimate, $13,550; (b) J. J. DAVIES, $17,886; engineer's estimate, $15,487. H. D. Chapman is City Engr.

WALNUT GROVE, ARIZ.—The residents of Walnut Grove have presented a petition to the Board of Supervisors asking that a wagon road be built from Prescott to this town. The estimated cost is $7,500. The City Clerk may be addressed.

TWIN FALLS, IDAHO.—The City Council has let the contract for laying 84,000 sq. ft. of concrete pavement to F. W. WHITTIER, at 13 cts. per sq. ft.

VANCOUVER, B. C.—The following bids are being considered: Sidewalk work, M. P. Cotton, 15 cts. per ft.; Tenth Ave. pavement, Granville to Laurel, Warren Construction Co., $35,547; Second Ave., Pine to Trafalgar, Hassam Paving Co., $61,500; Fourth Ave., Cedar to Maple, Palmer Bros. & Henning, $21,800; M. P. Cotton, $22,255. Bids for a definite supply of sewer pipe to be delivered within four months were received from the Dominion Glazed Cement Pipe Co. and Evan, Coleman & Evans. Their respective figures were: 10-in., 29¼ and 39 cts.; 12-in., 37 and 50 cts.; 14-in., 55 and 75 cts.; 16-in., 68 and 95 cts.; 18-in., 80½ cts and $1.20; 20-in., $1.14½ and $1.40; 24-in., $1.99½ and $2.25.

MANUFACTURING PLANTS.

(*Denotes that this work is advertised in Engineering News.*)

HOULTON, ME.—The Houlton Woolen Mill will erect a mill building 60 × 116 ft. and four stories high. The contract for the foundation has been awarded and work will be commenced soon, it is reported.

GARDNER, MASS.—It is stated that Gustaf E. Hoglund, Prop., G. E. Hoglund Foundry Co., will build a foundry on his property on the Boston & Maine R. R., 40 × 100 ft.

PITTSFIELD, MASS.—Plans have been completed and bids will soon be asked for the construction of a plant for the Stanley Co. The building will be erected on the south side of Kellogg St. It will be 80 × 800 ft., four stories high and of brick and fireproof construction. The estimated cost is $400,000.

BATAVIA, N. Y.—The Wiard Plow Co. has completed plans for a foundry addition to its plant on Swan St. and the New York Central R. R. It will be 60 × 70 ft., one story and of brick and structural steel.

CARTHAGE, N. Y.—L. P. Roys will erect a factory building for the manufacture of automobile lamp shades, it is stated.

*KINGS PARK, N. Y.—The following bids were received by the State Commission in Lunacy on Aug. 31 for laundry equipment at the Kings Park State Hospital, Kings Park: Troy Laundry Machinery Co., Troy, N. Y., $26,975; The American Laundry Machinery Co., 132 West 27th St., New York, $25,960. T. E. McGarr is Secy. of Comn.; F. B. Ware is State Arch., Albany.

LOCKPORT, N. Y.—The McKim Foundry & Machine Co. will build an addition to its plant on Green St. It will be of brick construction. Daniel G. McKim is Pres.

SYRACUSE, N. Y.—The Reddin Iron Works has plans in preparation for a foundry building, 77 × 148 ft., to be built adjoining its present plant.

CAMDEN, N. J.—The contract has been awarded to JOHN McSHAIN, 54th and Vine Sts., Philadelphia, for the erection of a 1-story factory to the plant of Mitchell & Co. in Camden.

WILMERDING, PA.—The contract for a carpenter shop for the Westinghouse Air Brake Co., Westinghouse Bldg., Pittsburg, has been let to E. Z. PEFFER, of Wilkinsburg. Estimated cost, $50,000.

PHILADELPHIA, PA.—WILLIAM STEEL & SONS, 1600 Arch St., have the contract to erect a 7-story brick and concrete addition, 93 × 67 ft., to the printing plant of the Stephen Green Estate, 109 to 115 North 16th St., at a cost of $93,000.

A contract has been awarded to JOSEPH BIRD, 203 North Eleventh St., for the erection of a 2-story brick and steel bakery and stable, 98 × 167 ft., on the south side of Walnut St., east of 33d St., for the Hutchinson Pie Baking Co. Cost, $40,000.

WILLIAM STEELE & SONS, 1600 Arch St., will erect a 3-story warehouse, 82 × 98 ft., at the northwest corner of Blabon St. and the Philadelphia & Reading R. R. for the George W. Blabon Co. The cost will be $78,625.

DANVILLE, VA.—The Danville Knitting Mills, of Danville, will build an additional structure, one story high, 78.7 × 100 ft., of mill construction with gravel roof. Plans and specifications have been prepared by McLaughlin, Pettit & Johnson, Archs., of Danville and Lynchburg. The Danville company operates 225 knitting machines with accompanying dyeing apparatus, etc., and is capitalized at $100,000. Estimated cost, $10,000.

CLARKSBURG, W. VA.—An electric insulator plant is to be erected at Hartland, near Clarksburg, and work on the buildings will be started by Oct. 1. The plant is to be operated by the Electric Insulator Co., which will be chartered with a capitalization of $50,000. The product will consist of glass insulators.

NEWBERRY, S. C.—The Oakland Cotton Mills has been incorporated with a capital of $400,000. A site for their plant has been selected in the western suburbs of Newberry, adjoining the Columbia, Newberry & Laurens R. R., and near enough to the Southern Railway to have shipping facilities over that system. Those interested include W. H. Hunt, W. G. Mayes, John W. Kibler, J. D. Wheeler, F. N. Martin, C. D. Weeks, W. A. McSwain and J. B. Hunter, all of Newberry.

RAGLAND, ALA.—A charter has been granted to the Brown Cotton Mills of Ragland, the capital stock being $250,000, and the incorporators named are W. T. Brown, J. A. Thomas, S. P. Hagan and R. A. Homphill. It will erect buildings and install machinery for a 10,000 spindle plant. Steam power will be used and 500 HP. will be required. Within 200 ft. of the mill site the company will mine coal for its boilers.

MERIDIAN, MISS.—The Priscilla Mill, of Meridian, has about decided all details for the erection of its proposed yarn plant. The main structure for the yarn mill will be two stories high, 50 × 150 ft. There will also be a dry room 50 ft. square and an engine and boiler room 60 × 50 ft. Building plans and specifications have been completed, foundation work is now in progress, and the materials for the superstructure are being delivered at the site. It is understood that the yarn mill buildings and machinery will cost from $125,000 to $135,000, which would mean a 5,000 spindle plant. The Priscilla Mill was established about a year ago and is a branch of the Alden Mills (a $200,000 yarn and twine plant), of New Orleans. A. W. McLellan, of New Orleans, is Pres. of both companies; Alden McLellan, of New Orleans, is Secy. and Treas. of both companies.

VICKSBURG, MISS.—We are officially advised that the Vicksburg Light & Power Co. contemplates erecting a concrete and steel car barn about 40 ft. wide by 150 ft. long, and also the erection of a steel and concrete trestle of from 350 to 400 ft. long, ranging from 22 ft. high at one end to 10 ft. at the other, of proper width to accommodate one standard gage single track with walk-way on one side. Each of these propositions will be considered and disposed of at once. W. B. Moorman is Pres. and Gen. Mgr.

COLUMBUS, OHIO.—Plans are being prepared by Maetzel, Tresselt & Bassett, American Savings Bank Bldg., Columbus, for a factory to be built for the Federal Oak Leather Co. Estimated cost, $9,000.

STEUBENVILLE, OHIO.—The Chamber of Commerce has received proposals from W. H. Dunshas, of Cortland, Ohio, for the location of a plant at Steubenville to manufacture Dunsha's new and improved cultivators. A. D. McMillan is Secy.

COLDWATER, OHIO.—It is stated that A. De Curtins, Lima, Ohio, and Ammerman, McColl & Anderson, Penobscot Bldg., Detroit, Engrs., are preparing plans for a 1-story factory plant, 280 × 60 ft., 215 × 60 ft., and 400 × 60 ft. The building is to be of brick and structural iron, with galvanized iron skylights, cement floors and steam heat, for the New Idea Spreader Co., of Maria Stein. Henry Lynck, is Mgr. Cost, $55,000.

FORT WAYNE, IND.—Beyer Bros. are planning to build a cold storage plant on Garden St. Estimated cost, $100,000. Bids will be asked for as soon as plans are completed.

JAMESTOWN, IND.—The Jamestown Milling Co. has been incorporated to build, equip and operate flour mills. Thomas Nugent, Ezra Mattingly and R. E. Nugent are Dirs.

DETROIT, MICH.—The E. M. F. Automobile Co., M. Brownsen, Secy., Piquette Ave., Detroit, has let the following contracts for the proposed 4-story factory addition, 60 × 500 ft.: General contractor, H. ROY HABERKORN, 169 Seward Ave.; hot water heating, to EVANS-ALMIRAL CO., 93 Jackson Boulevard, Chicago, Ill. The building will cost $60,000.

The Lake Superior Iron & Chemical Co., William H. Mathews, Mgr., 423 Penobscot Bldg., Detroit, is contemplating improvements to the chemical works and iron mine, located in the Northern Peninsular of Michigan.

Louis Kamper, Fine Arts Bldg., has let the masonry contract for the proposed 4-story factory, 254 × 61 ft., for the Universal Motor Co., C. H. Haberkorn, Secy., 210 Orchard St., to OTTO L. MISCH, Penobscot Bldg. Cost, $50,000.

The Cadillac Automobile Co., H. M. Leland, Gen. Mgr., 1403 Woodward Ave., has let the general contract for its factory building, one story, 100 × 163 ft., to A. A. ALBRECHT CO., Penobscot Bldg. Cost, $18,000.

The Lavigne Mfg. Co., E. C. Wagel, Secy., 625-41 Commonwealth Ave., has let the masonry contract for its oil pump factory, three stories, 99 × 99 ft., to OTTO L. MISCH, Penobscot Bldg. Cost, $21,000.

Albert Kahn and E. Wilby, Trussed Concrete Bldg., have let the general contract to the A. J. SMITH CONSTRUCTION CO., Hammond Bldg., for the construction of the $400,000 plant of the Hudson Motor Co. The plant is to be of reinforced concrete, fireproof, consisting of 2-story office building, 120 × 50 ft., 2-story factory 60 × 580 ft.; two 2-story factories, 250 × 60 ft. The owner will take bids soon on a vacuum heating system.

BENTON HARBOR, MICH.—Tallmadge & Watson, 188 Madison St., Chicago, Ill., are preparing plans for a factory to be located at Benton Harbor for Baker-Vawter Co., 143 Dearborn St., Chicago, Ill.

DETROIT, MICH.—John Scott & Co., Ford Bldg., have been selected to prepare plans for a 2-story and basement building, 90 × 100 ft., for the Michigan Stove Co. The building will be brick and reinforced concrete. Cost, $20,000.

The Detroit Sulphite & Paper Co., H. H. Everard, Pres., foot of Sulphite Ave., Detroit, has selected D. J. Albertson, 305 Main St., Kalamazoo, Mich., to prepare plans for a factory building.

Louis Kamper, Fine Arts Bldg., has let the following contracts for a 3-story forging factory, 90 × 100 ft. The building is to be of concrete blocks and mill construction. Cost, $30,000: Masonry, OAKLAND CEMENT BLOCK CO., care of the Architect; carpentry, UNDERWOOD & ARMSTRONG, 704 Beaubien St.

COAL CITY, ILL.—William A. Bennett, Arch., 167 Dearborn St., Chicago, has awarded the general contract to WILLIAM LONGMUIR, of Coal City, Ill., for a 1-story building, 60 × 200 ft., at Coal City, for the Coal City Clothing Co. It will be of brick, steel and concrete construction.

CHICAGO, ILL.—Paul Gerhardt, Arch., 109 Randolph St., has awarded the composition roofing contract to the NORTH CHICAGO ROOFING CO. and painting to J. C. HARLOW for a $125,000 dye house at the southeast corner of Sheffield Ave. and Marianna St., for Fred Strauss, 2451 Lincoln Ave.

CHICAGO, ILL.—J. S. Flizikowski, Arch., 70 La Salle St., will prepare plans for a brew house, to be four stories high and of brick, concrete and steel. Estimated cost, $65,000.

H. R. Wilson & Co., Archs., 218 La Salle St., will prepare plans for a 4-story fireproof printing plant at 25th St. and Prairie Ave., for the McMillan Publishing Co.

It is stated that T. R. Bishop, Arch., 167 Dearborn St., has completed plans for a 6-story factory, 195 × 165 ft., at the southwest corner of Morgan and 21st Sts., for Gottschalk & Kussel, 100 Washington St. It will be of steel, brick, fireproof construction, and will have fireproof windows, electric freight elevator, and steam heat. Estimated cost, $75,000.

RACINE, WIS.—Plans are being prepared by the Racine Piano Stool Mfg. Co., of this city, to erect a 2-story addition to its factory building. The present walls will be strengthened. An elevator shaft will be constructed.

BOYD, WIS.—A plant will be installed in the chair factory building, owned by the Boyd Lumber & Improvement Co., for the manufacture of table and chair legs, etc.

WEST ALLIS, WIS.—Kearney & Trecker Co. will erect a brick and steel addition to its plant, 50 × 100 ft., making the plant 170 × 250 ft.

MASON CITY, IOWA.—It is reported that ground has been broken for the erection of a plant for the Lehigh Cement Co., Oscar E. Davis, Supt., New Castle, Pa. Cost, $3,000,000. Noted last week.

ST. PAUL, MINN.—The Northwestern Insulation Co., G. Bohn, Pres., is receiving bids for the construction of a 1-story pressed brick and cut stone factory on University Ave. near Hamline Ave. Insulation for refrigerator cars will be manufactured. A power plant will be constructed in connection. Buechner & Orth, Capital Bank Bldg., St. Paul, are Archs. Cost, $40,000.

BRYAN, TEX.—A plan is on foot for establishing a plant for the manufacture of a combination farm tool and other novelties in Bryan. W. F. Irvine and the Bryan Commercial Club are interested in the project.

SAN ANTONIO, TEX.—Charles H. Hart, of Denver, Colo., and associates are planning the construction of a factory here, for the manufacture of wire goods, tinware, washing machines and also a foundry and structural steel works. Negotiations are now under way for a site for the factory. The cost will be about $500,000.

SEATTLE, TEX.—A company has been formed with a capital stock of $100,000 to build a shoe factory. F. G. Bryan, C. G. Holmes and H. E. Baker are the incorporators. Bids will be received soon.

SPOKANE, WASH.—A wood pulp paper manufacturing mill is to be established in Spokane, it is reported. Plans are under way for the construction of a dam to develop water power near Trent. A. R. Week of Spokane is interested.

SEATTLE, WASH.—According to reports a company was recently organized to build a graphite plant in Seattle. W. Pratt of Lincoln, Neb., and G. Nolson, Seattle, are the incorporators.

SEATTLE, WASH.—Plans have been completed by Fay, Russell & Babcock for the 3-story refrigerating plant to be erected by the Occidental Fish Co. at Railroad Ave. and Day St. It will be 66 × 135 ft. and of reinforced concrete. The cost is estimated at $40,000.

A site has been selected, according to R. W. Raymond, Secy. of the Industrial Bureau of the Chamber of Commerce, for a 40-ton paper and pulp mill to be erected in or near Seattle. C. B. Pride is interested. The cost will be about $250,000.

RENTON, WASH.—The Seattle Car Mfg. Co., Alaska Bldg., Seattle, is having preliminary plans drawn for the factory building to be erected at Renton, to replace the one recently burned. It will be 80 × 150 ft. and one story high, of steel frame and concrete construction. The cost will be about $12,000.

LOS ANGELES, CAL.—W. J. Saunders, Arch., Wright and Collender Bldg., has prepared plans for a 1-story engine room, 64 × 48 ft., to be erected at Sixth and San Julien Sts., for the New Method Laundry Co. It will have a concrete foundation, cement floor, roof and brick walls.

REDLANDS, CAL.—The Sanitary Laundry Co., of Redlands, has been incorporated and will erect a steam laundry plant soon.

COLTON, CAL.—The Exchange Packing House Co. will soon call for bids for the erection of a packing house, 150 × 320 ft.

EUREKA, CAL.—C. E. Ring, of Eugene, Ore., is planning the construction of a cabinet factory and moulding mill. The estimated cost is $75,000.

SAN DIEGO, CAL.—The San Diego Electric Ry. Co., is having plans prepared for the construction of a machine shop to be erected at Twelfth and L Sts. The building will be 125 × 200 ft., of steel and reinforced concrete construction, cement floor and asphalt roof. The cost, exclusive of equipment, will be $40,000. The contracts will be let soon. William Clayton is Gen. Mgr., and John D. Spreckles, San Francisco, is the owner.

QUEBEC, QUE.—The State Department at Ottawa, Ont., has granted incorporation to the Canadian Cotton & Silk Mfg. Companies, Ltd., of Quebec City. The capital is placed at $245,000. The incorporators are: M. F. Chass and W. L. Parent of New Hampshire; T. Comeau of Lawrence, Mass.; C. W. Parent, A. Chamberland and A. Duval of Quebec.

BRANTFORD, ONT.—The City Council has closed negotiations with the Penmans' Knitting Co., Ltd., of Paris, for the erection of an addition in the Holmedale district. Estimated cost, $80,000. The local street railway will construct a freight and passenger line into the district.

CHATHAM, ONT.—The Canadian Grain Shocker Co. has made an agreement with the City Corporation to locate here. The city gives a free site of three acres, and the company expects to employ 300 hands the year around.

CHIPPEWA, ONT.—The Norton Corborundum Co. will enlarge its plant here to double its present capacity. This will increase the number of electric furnaces from six to twelve.

HAMILTON, ONT.—The Canadian Westinghouse Co. has taken out a permit for the erection of an addition to its plant to cost $22,000. A number of other buildings soon will be erected also at a total cost of $100,000. Paul J. Myler is Vice-Pres. and Gen. Mgr.

HAMILTON, ONT.—The Eureka Smoke Consumer Co., of Rochester, N. Y., has decided to build a factory for the Canadian trade. The plant will cost $25,000 and will employ 20 hands at the start. T. J. Coughlin has been appointed Canadian agent.

STRATFORD, ONT.—A by-law authorizing a loan of $20,000 for a furniture factory promoted by J. A. Michener, of Stratford, was recently carried. About $50,000 is to be expended before Jan. 1, 1911, and at least 50 hands are to be employed.

WELLAND, ONT.—The Chemical Laboratories, Ltd., of Toronto, have secured a site of 32 acres for their plant to be erected here at a cost of $100,000, and to employ 125 hands. The products will be silver and gold salts, mercurials, iodides, etc.

OWEN SOUND, ONT.—The ratepayers have carried the by-law authorizing the grant of $100,000 in the shape of $50,000 bonus and taking stock to the extent of $50,000, for the shipyard proposed to be erected here by British capital. The plant

is expected to cost $1,000,000, it is reported. Address the Secretary, Board of Trade, Owen Sound.

WINNIPEG, MAN.—Maj. J. A. Currie has been here negotiating for the establishment of a branch of the Imperial Wire Co. at either Winnipeg or St. Boniface. The factory, when built, will give employment to 200 hands.

PRINCE RUPERT, B. C.—The Canadian Fish & Cold Storage Co., of Vancouver, B. C., recently awarded the TRUSSED CONCRETE STEEL CO., Trussed Concrete Bldg., Detroit, Mich., represented in the Northwest by Arthur T. Nelson, 14 Downs Block, Vancouver, a contract to construct the first unit, or main building, of a refrigerating plant at Prince Rupert. The structure was designed by Mr. Nelson and will be five stories and basement, 80 × 143 ft. With machinery and equipment in place the estimated cost of the first unit is about $250,000.

CHIHUAHUA, MEX.—A concession for the establishment in Mexico of a zinc refinery to cost about $200,000, has been asked of department of Fomento by Francisco E. Halas, Engr., Lopez. Application has been taken under consideration.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

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*SUBWAY SYSTEM, ETC.—New York, N. Y.—Bids will be received at the office of the Public Service Commission, First District, 154 Nassau St., New York, for construction, equipment and operation of the Tri-Borough Subway and Elevated System of New York City, comprising about 44 miles of line until Oct. 20. Bids are also asked for construction only, with municipal money, until Oct. 27. Bids may be made for one or more of the sections into which the construction work has been divided.

The plan, under which bids will be received on Oct. 20 (the Tri-Borough Subway and Elevated System) will be as follows, according to the instructions to bidders issued by the Commission:

"One part begins at a point under Battery Park, near the water front, in the Borough of Manhattan, and runs thence as a sub-surface railroad along and under Greenwich St., Church St. and Broadway (with a connecting line running east and west under Canal St.) and under Irving Pl. and Lexington Ave., passing under other streets and private property; thence under the Harlem River and private property to 135th St. and Park Ave., in the Borough of The Bronx, where the line divides. The east side branch extends under Park Ave. and private property to 138th St., thence under 138th St., the Southern Boulevard, and Whitlock Ave. to a point in private property south of Westchester Ave., where the line emerges and becomes an elevated railroad, thence continuing along Whitlock Ave. and Westchester Ave. to Pelham Bay Park. The west side branch, beginning at 135th St. and Park Ave., extends thence under private property, Mott Ave., Franz Sigel Park, crossing under other streets and private property to a point in private property near River Ave. and 157th St., where the line emerges and becomes an elevated railroad, thence continuing along River Ave. and Jerome Ave. to Woodlawn Road. The connecting line in the Borough of Manhattan under Canal St. begins near Chrystie St. and extends westerly as a sub-surface railroad under Canal St. and Watt St. to West St. In the Borough of Brooklyn, the railroad consists of several portions. One portion, which begins in Fourth Ave. near 43d St., runs thence as a sub-surface railroad under Fourth Ave. to Fort Hamilton, and another portion beginning in Fourth Ave. near 40th St., runs thence as a sub-surface railroad under 40th St., New Utrecht Ave. and 86th St. to a point between 23d and 24th Aves., where it emerges from the ground and becomes an elevated railroad, thence continuing over 86th St. and Stillwell Ave. to Coney Island. The other portion of the railroad in Brooklyn consists of two branches. One branch begins at the Brooklyn Terminal of the Williamsburg Bridge and runs as a sub-surface railroad under the plaza of Williamsburg Bridge, private property and Broadway to a point between Greene Ave. and Lexington Ave. The other branch begins under Fulton St. near Ashland Pl. and runs also as a sub-surface railroad under Fulton St., Lafayette Ave. and Kossuth Pl. to Bushwick Ave. The general plan of construction of the railroad calls for two tracks between Battery Park and Chambers St. in Manhattan and four tracks from Chambers St. in Manhattan to 135th St. and Park Ave. in The Bronx, with the branches in The Bronx having in the main three tracks each. The branch under Canal St. in Manhattan will have two tracks. In Brooklyn the portion of the railroad beginning in Fourth Ave. and extending to Fort Hamilton Ave., will have two tracks the other portion, extending to Coney Island, will have three tracks for the subway part and four tracks for the elevated part; the portion consisting of two branches, one running under Broadway from Williamsburg Bridge to Greene Ave., and the other under Fulton St. and Lafayette Ave. from Ashland Pl. to Bushwick Ave., will have two tracks for each branch. Turn-outs, cross-overs, connections, sidings, loops, etc., will be constructed, all of which are more particularly indicated on the contract drawings. The work of constructing the railroad will include the construction of all necessary sewers and connections along the line of the railroad; also the necessary supports, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other sub-surface structures, the support and care, including underpinning where necessary, of all buildings, monuments, surface, sub-surface, and elevated railroads, and other surface or sub-surface structures, etc., affected by or interfered with during the construction of the work; also the restoration of street surfaces, including pavements. The method of construction will be partly trench excavation (under cover unless otherwise provided in the form of contract or permitted by the Commission) and partly tunnel, as set forth in the form of contract. For the tunnel tubes under the Harlem River two plans, designated Type H and Type K, respectively, have been prepared. Type H is for cast-iron tubes enclosed in concrete. Type K is for riveted steel tubes enclosed in concrete. Bidders for the contract for construction, equipment and operation may select the type they prefer, and shall state their selection in the proposal.

The following data is taken from the Commission's instructions to bidders for Route No. 5 (the Broadway-Lexington Ave. Subway), bids for which will be received by the Commission on Oct. 27: "Section No. 1 begins under Battery Park and extends thence under Battery Pl., Greenwich St., Trinity Pl. ond Church St. to a point about 80 ft. north of the centre line of Dey St.; with a station in Battery Park, a station at Rector St. and a station at Cortlandt and Dey Sts. Section No. 2 begins at the end of Section 1 and extends thence under Church St., private property, Vesey St., private property and Broadway to a point under Broadway about 110 ft. north of the centre line of Walker St.; with a station at Murray and Warren Sts. Section No. 2A begins at the end of Section 2 and extends thence under Broadway to a point about on the northerly building line of Howard St. This section includes the Canal St. station and also the portion of the Canal St. subway lying thereunder. Section No. 3 begins at the end of Section 2-A and extends thence under Broadway to a point about midway between Houston and Bleecker Sts., with a station at Prince St. Section No. 4 begins at the end of Section 3 and extends thence under Broadway, private property and the several cross streets to a point under private property at the southerly line of East 14th St. and Irving Pl., with a station at Astor Pl. and East Eighth St. Section No. 5 begins at the end of Section 4 and extends thence under Irving Pl., Gramercy Park and Lexington Ave. to a point about 140 ft. north of the center line of East 26th St., with a station at East 14th and 15th Sts., and a station at East 23d St. Section No. 6 begins at the end of Section 5 and extends thence under Lexington Ave. to about the center line of East 40th St., with a station at East 27th and 28th Sts. and a station at East 34th St. Section No. 7 begins at the end of Section 6 and extends thence under Lexington Ave. to a point about 50 ft. north of the center line of East 53d St.; with a station at East 42d and 43d Sts., and a station at East 51st St. Section No. 8 begins at the end of Section 7 and extends thence under Lexington Ave. to a point about 50 ft. north of the center line of East 67th St.; with a station at East 58th and 59th Sts. Section No. 9 begins at the end of Section 8 and extends thence under Lexington Ave. to a point about 70 ft. south of the center line of 79th St., with a station at East 68th and 69th Sts., and a station at East 77th St. Section No. 10 begins at the end of Section 9 and extends thence under Lexingotn Ave. to a point about 50 ft. south of the center line of East 93d St., with a station at East 86th St. Section No. 11 begins at the end of Section 10 and extends thence under Lexington Ave. to a point about 70 ft. south of the center line of East 106th St., with a station at East 96th St. and a station at East 102d and 103d Sts. Section No. 12 begins at the end of Section 11 and extends thence under Lexington Ave. to a point about 115 ft. south of the center line of East 118th St., with a station at East 110th and 111th Sts., and a station at East 116th St. Section No. 13 begins at the end of Section 12 and extends thence under Lexington Ave. to a point about 120 ft. south of the center line of East 129th St., with a station at East 125th St. Section No. 14 begins at the end of Section 13 and extends thence under Lexington Ave., private property and the Harlem River to a point in private property in the Borough of The Bronx, thence under private property and Park Ave. to East 135th St. Here the line divides into two branches. The west branch begins at about the center line of East 135th St. and extends thence under private property to a point in private property a distance of about 655 ft. from the center line of East 135th St. and about 50 ft. west of the center line of Mott Ave. The east branch extends under Park Ave. and partly under private property to about the intersection of the easterly line of Mott Ave. with the westerly line of Park Ave. Section No. 15—This section consists of two branches. The west branch begins at the end of the west branch of Section 14 and extends thence under East 135th St., private property and Mott Ave., Franz Sigel Park, private property and the several cross streets to a point in private property on the easterly side of River Ave., about 120 ft. south of the south line of East 157th St., with a station at East 138th and 149th St. [The portion of this section north of East 151st St. is part of the River Ave. route adopted by the Commission on June 16, 1908.] The east branch begins at the end of the east branch of Section 14 and extends thence under Park Ave., private property, Canal St. West and East 138th St., to a point in East 138th St., about 150 ft. easterly of the center line of Alexander Ave., with a station between Third and Alexander Aves. The general plan of construction calls for a sub-surface railroad having two tracks between Battery Park and Chambers St. in Manhattan, and four tracks from Chambers St., in Manhattan to 135th St. and Park Ave. in The Bronx, with the branches in The Bronx having in the main three tracks each. Turnouts, crossovers, connections, sidings, loops, etc., will be constructed, all of which are more particularly indicated on the contract drawings. For Section 14 two plans designed Type H and Type K, respectively, have been prepared. The bidders for such section may submit a proposal for either or both of such types. After a comparison of the bids the Commission will determine which of such plans shall be adopted."

For Routes Nos. 9 and 20 (the Broadway-Lafayette Ave. Subway in Brooklyn—the Brooklyn and Manhattan Loop lines—and the Canal St. Subway in Manhattan, respectively) bids for which will be received on Oct. 27, the following data is given: Route No. 9—"Section No. 1 begins at the Brooklyn terminal of the Williamsburg Bridge, at or near Driggs Ave., and extends thence under the plaza of the Williamsburg Bridge and private property to Broadway at a point near Marcy Ave., thence under Broadway to a point about 160 ft. southeasterly from the center line of Sumner Ave. Section No. 2—In two parts. The first part begins at the end of Section 1, and extends thence under Broadway to a point about midway between Greene Ave. and Lexington Ave. The second part begins at a point near Bushwick Ave. and extends thence westerly under Kossuth Pl. and under the projected subway in Broadway to Lafayette Ave.; and thence westerly under Lafayette Ave. to a point about 620 ft. easterly from the center line of Tompkins Ave. Section No. 3—Begins at the end of the second part of Section 2, and extends thence westerly under Lafayette Ave. to Fulton St.; and thence under Fulton St. to a point at or near Ashland Pl., where a connection can be made with a subway now under construction."

Route No. 20—"Section No. 1—Beginning at a point in Watts St., Boro. of Manhattan, about 8 ft. east of the east building, line of West St., and extending thence northeasterly under and along Watts St. to Canal St. and thence easterly under along Canal St. to a point about 75 ft. of the northeast corner of West Broadw Section No. 2—In two parts. The first begin-ning at a point under Canal St., e Borough of Manhattan, about 75 ft. of the northeast corner of West Broadw nd extending thence easterly under along Canal St. to a point about 47 ft. of the northwest corner of Broadway. second part beginning at a point und al St about 27 ft. east of the nort corner of Broadway, and extending th under and along Canal St. and under xisting subway in Lafayette St. and C St. to a point about 40 ft. east of the e uilding line of the Bowery." Advertised noted last week.

FERRY HOUSE.—Gloucester C N. J.—See item under Buildings.

BARGE CANAL.—Albany, N. Y. item under Bridges. Also under Wat pply—Irrigation: Hinckley, N. Y.

DREDGING.—Norfolk, Va.—Bid ll be received until noon, Sept. 29, fo dging Onancock River and Bar by Mas Patrick, Lt. Col., Engrs. Specificati are on file at the office of Engineering N New York.

CHANNEL.—Delaware, Ohio.—Bi will be received until Sept. 17 by W. H. urtha, County Auditor, for straightening 0 yds. of the channel.

*JETTY.—Galveston, Tex.—Bids w be received by Maj. G. P. Howell, Corp Engrs., U. S. A., until noon, Oct. 8, for j work at Aransas Pass.

DITCH.—Carroll, Iowa.—Bids will be received until Sept. 16 by Peter S phany, County Audr., for constructing a drainage ditch, including 47,800 ft. of tile.

*DREDGING.—Wilmington, N. C.—Bids are asked by Capt. Earl I. Brown, Corps Engrs., U. S. A., Wilmington, until noon, Oct. 14, for dredging in Cape Fear River.

*DREDGING.—New York, N. Y.—Bids are asked until Sept. 30 by Col. W. M. Black, Corps Engrs., U. S. A., New York, for dredging in Saugerties Harbor, N. Y.

PIER.—Brockville, Ont.—Bids will be received until Sept. 21 by the Public Works Department, R. C. Desrochers, Secy., Ottawa, Ont., for the construction of a pier at Brockville, Ont.

WHARF.—Lakeport, Ont.—Bids will be received until Oct. 4 by the Public Works Dept., R. C. Desrochers, Secy., Ottawa, Ont., for the reconstruction of a wharf at Lakeport, Ont.

BREAKWATER.—Goderich, Ont.—Bids will be received until Oct. 4, by the Public Works Department, R. C. Desrochers, Secy., Ottawa, Ont., for the construction of a breakwater at Goderich, Ont.

*DREDGING.—Charleston, S. C.—Bids are asked by Capt. E. M. Adams, Corps Engrs., U. S. A., Charleston, until noon, Oct. 10 for dredging canal between Price Creek and McClellanville, S. C.

(Continued on page 127.)

CONTRACT PRICES.

(See also page 128.)

BARGE CANAL.—Albany, N. Y.—Bids were received by F. C. Stevens, Supt. Public Works, Albany, Aug. 23, for Barge Canal Contract No. 67, providing for the construction of two locks and other structures at Lockport, N. Y., as follows: (A) Engineer's estimate; (B) Smith, McCormick Co., Easton, Pa.; (C) S. Pearson & Son, Inc., 307 Fifth Ave., New York City; (D) MacArthur Bros. Company, 11 Pine St., New York City; (E) Buffalo Dredging Co., Buffalo, N. Y.; (F) Larkin & Sangster, St. Catherines, Ontario, Can. The itemized bids were as follows:

BARGE CANAL CONTRACT NO. 67.

	A.	B.	C.	D.	E.	F.
Clearing, lump sum	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00
258,700 cu. yds. excavation	1.65	1.90	1.95	1.60	1.70	1.45
6,700 cu. yds. tunnel excavation	5.00	6.00	6.00	6.00	5.50	5.00
48 M. ft. B. M. sheeting and bracing	55.00	55.00	55.00	50.00	55.00	55.00
160,000 sq. ft. channeling	.25	.30	.30	.30	.27½	.25
350 cu. yds. forming embankment	.15	.15	.15	.18	.15	.15
450 cu. yds. lining	1.50	1.50	1.50	1.50	1.50	1.50
9.5 M. ft. B. M. sawed lumber	55.00	55.00	55.00	54.00	55.00	60.00
18 M. ft. B. M. white oak lumber in lock gates	150.00	150.00	150.00	144.00	150.00	150.00
210 M. ft. B. M. creosoted lumber	70.00	70.00	70.00	72.00	70.00	70.00
3,000 lin. ft. round timber bracing	.20	.20	.20	.20	.20	.20
60,600 cu. yds. second-class concrete	7.50	8.00	8.04	6.50	7.05	6.25
2,900 cu. yds. tunnel lining	10.00	8.00	10.00	10.00	10.00	8.00
420 cu. yds. reinforced concrete	12.00	12 00	12.00	11.00	12.00	12.00
50 cu. yds. first-class masonry coping	30.00	30.00	30.00	30.00	30.00	30.00
800 cu. yds. grouted rip-rap	5.00	5.00	5.00	4.80	5.00	5.00
190 cu. yds. third-class rip-rap	2.50	2.50	2.50	1.80	2.50	2.50
700 cu. yds. fourth-class rip-rap	2.00	2.00	2.00	1.50	2.00	2.00
410 lin ft. 6-in. vitrified pipe, laid	.25	.25	.25	.28	.25	.25
900 lin. ft. 12-in. vitrified pipe, laid	.75	.75	.75	.90	.75	.75
900 lin. ft. 15-in. vitrified pipe, laid	1.00	1.00	1.00	1.20	1.00	1.00
192,700 lbs. metal reinforcement	.03½	.03½	.03½	.03¾	.03½	.03¼
3,428,000 lbs. structural steel	.04½	.05	.04½	.04½	.04½	.04½
193,800 lbs. iron castings, plain	.03½	.03½	.03½	.03½	.03½	.03¼
38,200 lbs. iron castings, machined	.05	.05	.05	.05¼	.05	.05
620,000 lbs. metal in lock gates	.05½	.06	.05½	.05½	.05½	.05½
88,500 lbs. metal in lock valves	.09	.09	.09	.09	.09	.09
103,000 lbs. metal in buffer beams	.05	.06	.05	.06	.05	.05
4,800 sq. yds. wood block pavement	2.75	2.75	2.75	2.70	2.75	2.75
7,200 lin. ft. drilling bolt holes in rock	.60	.60	.60	.60	.60	.60
1,200 lin. ft. wrought iron pipe railing	1.00	1.00	1.00	.90	1.00	1.00
720 lin. ft. lattice railing	1.75	1.75	1.75	2.10	1.75	1.75
4,000 lin. ft. fiber ducts	.10	.10	.10	.10	.10	.10
6 gate hoists	250.00	250.00	250.00	250.00	250.00	250.00
3 valves, 48-in.	1,100.00	1,100.00	1,100.00	1,100.00	1,100.00	1,100.00
Maintaining highway traffic, lump sum	2,500.00	2,500.00	2,500.00	2,500.00	2,500.00	2,750.00
Maintaining electric railway traffic, lump sum	500.00	500.00	500.00	500.00	500.00	600.00
Maintaining navigation, lump sum	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00
20 for removing buildings	100.00	100.00	100.00	120.00	100.00	120.00
Storehouse	850.00	850.00	850.00	840.00	850.00	850.00
1,600 sq. yds. replacing brick pavement	1.50	1.50	1.50	1.50	1.50	1.50
Lowering miter sills, Lock No. 71, lump sum	750.00	750.00	750.00	750.00	750.00	800.00
Cofferdams, pumping, bailing and draining, lump sum	16,000.00	16,000.00	16,000.00	19,200.00	17,500.00	16,500.00
Deduct price to be paid to state for bridge superstructures to be removed by contractor without expense to the state	100.00	100.00	100.00	100.00	100.00	100.00
Totals	$1,290,880	$1,416,025	$1,415,914	$1,236,472	$1,285,395	$1,149,401

MISCELLANEOUS CONTRACTS.

(Continued from page 126.)

*DREDGING, ETC.—Chicago, Ill.—Bids will be received until 10 a. m., Oct. 12, by Maj. Charles S. Bromwell, Corps Engrs., U. S. A., Chicago, for dredging and rock excavation in the Chicago River.

WHARF, RETAINING WALLS.—Hamilton, Ont.—Bids will be received until Sept. 28 by C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for constructing a wharf and two retaining walls at Hamilton.

DITCH.—Plymouth, Ind.—Bids will be received until Sept. 24 by Percy Troyer, Ditch Comr., Court House, Plymouth, for constructing Copeland Ditch, requiring about 10,000 ft. of 10, 12 and 14-in. clay tile.

DITCH.—Red Lake Falls, Minn.—Bids will be received until Sept. 17 by A. A. Latendresse, County Audr., for constructing County Ditch No. 49, approximately 74,125 yds. of excavation, estimated to cost $10,162.

BREAKWATER, CULVERT.—Shelbyville, Ind.—The Commissioners of Shelby County will receive bids until 10 a. m., Oct. 3, for the construction of a concrete breakwater and a concrete steel culvert. G. B. Hunter is Audr.

*DREDGE MACHINERY.—Montgomery, Ala.—Bids are asked by Capt. H. B. Ferguson, Corps Engrs., U. S. A., Montgomery, until 1 p. m., Sept. 30, for cutter machinery and other accessories for a 15-in. pump dredge.

REPAIRS TO PIER.—Philadelphia, Pa.—Bids for repairs to the Race St. pier were received by Joseph H. Hasskarl, Acting Dir. Pub. Wks., on Sept. 9. The contract has been let to M. & J. B. McHUGH, Arcade Bldg., Philadelphia.

*DREDGING.—Wilmington, N. C.—Bids are asked until noon, Oct. 10, by Earl I. Brown, Corps Engrs., U. S. A., Wilmington, for dredging in Shallowbag Bay, South River, Bay River and Waterway connecting Swan Quarter Bay with Deep Bay, N. C.

SUBWAY.—Smith's Falls, Ont.—The contract for the construction of the C. P. R. subway, which is to be built in the northern section of Smith's Falls, has been awarded to M. McCORMACK, of Sudbury, Ont., and J. H. MORIN, of Montreal.

LEVEE, CHANNEL.—Santa Ana, Cal.—Bids are asked by the Board of Directors of Newbert Protection District, Commercial Bank Bldg., until Sept. 24, for the construction of levees and channel of the Santa Ana River, and for all of the divisions thereof.

*DREDGING.—Jacksonville, Fla.—Bids will be received by Capt. Geo R. Spalding, Corps Engrs., U. S. A., Jacksonville, until noon, Oct. 10, for dredging and hire of dredging plant in Anclote River, Fla., and dredging in channel from Clearwater Harbor to Tampa Bay, Fla.

*BARGES AND FLAT BOATS.—St. Louis, Mo.—Bids are asked by Maj. Charles L. Potter, Corps Engrs., U. S. A., Custom-House, St. Louis, until 11 a. m., Oct. 7, for building, leasing, or selling 1 to 20 barges and for building 5 to 50 flat boats, of wood or of steel.

DITCH.—Columbus, Ohio.—Bids will be received by the County Commissioners of Franklin County until Sept. 21 for digging and tiling a ditch in Truro and Madison Townships. The plans and specifications for the work are on file at the office of H. K. Lindsay, County Surv.

STEAMER.—Victoria, B. C.—Bids will be received until noon, Oct. 31, by the Department of Marine and Fisheries, Ottawa, Ont., for the construction of a twin-screw steel lighthouse and buoy steamer for the Pacific coast, to be delivered at Victoria, B. C., of the following leading dimensions: Length, between perpendiculars, 200 ft.; breadth, 38 ft.; depth, 17 ft. 6 ins.; draught, 11 ft. 6 ins., and speed, twelve knots per hour.

STORAGE TANKS.—Washington, D. C.—Bids are asked until 11 a. m., Oct. 8, by William M. Smith, Acting Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for pumps, piping and appurtenances for fuel oil and gasoline storage tanks at the U. S. Naval Stations at Bradford, R. I.; Norfolk, Va.; Charleston, S. C., and Key West, Fla. Specifications are on file at the office of Engineering News, New York.

DITCHES.—Angleton, Tex.—Bids will be received until Oct. 4 by the Commissioners of Brazoria County Drainage District No. 4, at Angleton, for approximately 646,786 cu. yds. of earth excavation necessary in the construction of the canals, drains, ditches and laterals in the drainage district; clearing and grubbing 13.1 acres of land, cleaning 16.6 acres of land. E. C. Miller, of Pearland, is Secy. of the Bd.; William Bradburn is Engr., Pearland.

DITCH.—Nevada, Iowa.—All bids were rejected on Aug. 15 by F. G. Dunahugh, County Audr., for constructing Boone-Story Ditch No. 3, about 71,744 ft. of 6 to 30-in. tile. New bids were received on Sept. 6 as follows: Charles R. Lewis, East St. Louis, Ill., Sections 1 and 2, 8.24 cts. per cu. yd.; Section 3, 8.25 cts. per cu. yd., and Section 10, 10 cts. per cu. yd. De Long & Co., Scranton, Iowa, tile ditch, $54,000. H. A. Chambers is Engr., Boone, Iowa.

DREDGING, WHARF.—Wilmington, Cal.—Plans and specifications have been completed in the office of the Bureau of Harbor Improvements for dredging in the inner harbor and for building a wharf at foot of Fries St., a distance of 330 ft. The basin is to be dredged to a depth of 25 ft. at low tide and the wharf is to be of creosoted pile construction. The wharf will be 45 ft. wide and will carry two lines of railroad track. Amount available for the work, $33,000.

PIER, ETC.—New York, N. Y.—Bids are asked by the Department of Docks and Ferries until noon, Sept. 20, for Contract No. 1223, for furnishing all the labor and materials required for preparing for, widening and extending the present pier at the foot of Gold St., Boro. of Brooklyn, and for furnishing and depositing riprap thereat. Also for Contract 1217, for furnishing all the labor and materials required for preparing for and repairing and painting the buildings on the recreation piers at the foot of East 24th St. and Market St., East River; Barrow St., North River, in the Boro. of Manhattan, and North Second St., East River, Boro. of Brooklyn.

*CANAL, ETC.—Sault Ste. Marie, Mich.—The following bids were received by Col. C. McD. Townsend, Corps Engrs., U. S. A., Jones Bldg., Detroit, Mich., on Aug. 30, for excavating canal and building canal walls, pier, etc., in connection with the Davis Lock at Sault Ste. Marie: The Great Lakes Dredge & Dock Co., 138 Washington St., Chicago, Ill., $688,105; W. J. Newman Co., 112 West Van Buren St., Chicago, $904,850; MacArthus Bros. Co., 277 Dearborn St., Chicago, $675,288; John Marsch, 181 La Salle St., Chicago, $978,367.

REPAIRING FERRY STRUCTURES.—New York, N. Y.—Bids were received by the Commissioner of Docks on Sept. 8, for Contract No. 1230, for furnishing all the labor and materials required for reconstructing and repairing the ferry structures at the foot of Broadway, East River, Boro. Brooklyn. Bids were as follows for (a) Class 1, (b) Class 2: N. B. Smyth, Inc., 1123 Broadway, City, (b) $10,637; Phoenix Construction Co., (a) $53,483; Riverside Construction Co., (a) $55,283; Butler Bros. Construction Co., (a) $55,621; Joseph Halaban, (b) $10,800; G. B. Spearin, (a) $60,688, (b) $12,178; E. De V. Tompkins, (a) $53,860, (b) $14,890; N. Y. State Construction Co., (a) $52,685, (b) $12,895; William Wermer, (b) $14,845.

DREDGING.—San Diego, Cal.—Bids were received by Capt. W. P. Stokey, Corps Engrs., U. S. A., Central Bldg., Los Angeles, on Sept. 8, for dredging in San Diego Harbor. The amount available, $120,000. The work will consist of dredging a channel 600 ft. wide and 30 ft. deep through the middle ground just inside the harbor entrance. Estimated quantity to be removed, 460,000 cu. yds. The bids follow: American Dredging Co., San Francisco, Cal., 36 cts.; San Francisco Bridge Co., San Francisco, Cal., 23.4 cts.; North American Dredging Co., Los Angeles, Cal., 19.7 cts.; Standard American Dredging Co., San Francisco, Cal., 14.89 cts. The bid of 14.89 cts. is made subject to the condition that the contractor be allowed to commence work May 1, 1911, and work continuously (Sundays and holidays, if desired); contract to be completed within the time named in specifications.

PIER.—New York, N. Y.—Bids were received as follows on Sept. 10 by the Bureau of Yards and Docks, Navy Dept., Washington, for the construction of a pier from Mainland to Cob Dock, Pier D., at the U. S. Navy Yard at New York: Phoenix Construction Co., 41 Park Row, New York, $86,681; John Monks & Co., 82 Beaver St., New York, $79,868; John Anderson, 90 West St., New York, $112,666; Holbrook, Cabot & Rawlins Corp., 6 Beacon St., Boston, $86,000; Riverside Contracting Co., 39 Cortland St., New York, $76,237; American Paving & Construction Co., 211 South Ninth St., Philadelphia, $85,000; Charles Meads & Co., 299 Broadway, New York, $79,200; Snare & Triest Co., 143 Liberty St., New York, $82,493; Raymond Concrete Pile Co., 140 Cedar St., New York, $94,800; E. de V. Tompkins, 81 East 125th St., New York, $75,940; New York State Construction Co., Inc., 78 Broad St., New York, $84,547.

LEVEE.—New Orleans, La.—Bids for levee work aggregating 390,000 cu. yds. of earth were received at the office of the State Board of Engineering on Aug. 24 and contracts in five different parishes were awarded as follows: To DAMERON & WHITE, Hennen Bldg., New Orleans, for the levee to be built in West Baton Rouge, known as the Upper Allendale levee, 115,000 cu. yds. at 18 cts. per cu. yd.; New Hope to Souvenir levee, in Ascension Parish, embracing 65,000 cu. yds. of earth, to W. M. RUSHING, of Bayou Current, at 12.4 cts. per cu. yd.; for enlargement of Omega levee, embracing 100,000 cu. yds., to J. M. SULLIVAN, of Montgomery, Ala., at 16.23 cts. per cu. yd.; to A. E. PARKER, of Vicksburg, for enlargement of Willow Point to Henderson levee, at 15.7 cts.; to LINNAN BROS., of Darrow, La., for enlargement work on the Panola levee, in Tensas Parish, at 13.99 cts. per cu. yd.

BARGE CANAL.—Albany, N. Y.—The bids were received by F. C. Stevens, Supt. Public Works, on Sept. 7, for Barge Canal, Contract No. 30, providing for constructing a reservoir and dam on the West Canada Creek at Hinkley, of an area of 6.1 sq. miles. Bids were as follows: BUFFALO DREDGING CO., Buffalo, N. Y., $963,416 (awarded contract); Larkin & Sangster, St. Catharines, Ont., $1,015,381; Michael J. Dady, Brooklyn, N. Y., $1,110,899; Lane Bros. Co., Altavista, Va., $1,048,799. Engineer's estimate, $1,076,000. Contract No. 37, providing for the improvement of the Oswego Canal between Fulton and Oswego, a distance of about ten miles, and calling for about 950,000 cu. yds. of excavation at an estimated price of 91 cts. per cu. yd., was advertised also, but no bids were received for the work. The Engineer's estimate of the cost of the work covered by the contract is $1,683,010. Frank M. Williams is State Engr., Albany.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

Bids open.		Noted in issue of
9-19	Elec. wiring, Youngstown, Ohio	9- 1
9-21	Light fixtures, Washington, D. C.	9- 8
9-26	Elec. equip., New York	9-15
9-27*	Power-house, etc., Wheeling, W. Va.	9- 1
9-29	Elec. plant impvts, Jackson, O.	9-15
9-30	Power-house, Alto, Ga	9-15
10- 1*	Power plant, Annapolis, Md	8-25
10- 1	Power equipment, Hudson, N. Y.	9-15

Bridges.

Bids open.		Noted in issue of
9-16	Bridges, Boscobel, Wis	9- 8
9-16	Bridges, Harrisburg, Pa	8-25
9-19	Bridges, San Jose, Cal	9- 8
9-19	Bridge work, Lisbon, Ohio	8-25
9-19	Bridges, Chester, Pa	9-15
9-20	Bridges, Cripple Creek, Colo	9-15
9-21	Bridge work, Franklin, Pa	9- 8
9-26	Bridge, Elizabeth, N. C	9-15
9-27	Bridge, Prescott, Ariz	9-15
10- 1*	Superstructure, Quebec, Que	8-18
10- 1	Bridges, Dallas, Tex	9-15
10- 3	Bridges, Zanesville, Ohio	9-15

Buildings.

Bids open.		Noted in issue of
9-16	Library, Winchendon, Mass	9- 8
9-16*	Post-office, Harriman, Tenn	8-11
9-16	Fire-house, Mishawaka, Ind	9- 1
9-17	Library, Quebec, Que	9-15
-19	Post-office, Plattsmouth, Neb	8- 4
-20	Post-office, Easton, Pa	8-18
9-20	Building, Kingston, Ont	9-15
9-20	Capitol superstructure, Madison, Wis.	9-15
9-21*	Post-office, Warrensburg, Mo	8-18
9-22	Post-office, Clinton, Mo	8-11
9-22	Officers' quarters, Fort Hamilton, N. Y	9- 1
9-22	School, Lebanon, Ind	9-15
9-22	Warehouses, Highlandtown, Md	9-15
9-22	Bldg. additions, West Chester, Pa.	9-15
9-22	Engine house impvts., New York.	9-15
9-22	Bldg. alterations, New York	9-15
9-26	Court-house impvts., New Westminster, B. C	9-15
9-26	Post-office, Greensburg, Pa	8-25
9-26	Schools, New York	9-15
9-27	Buildings, Toronto, Ont	9-15
9-27	School, Linicum, Pa	9-15
9-28	Bldg. impvts., Gloucester City, N. J.	9-15
9-29	Post-office, Platteville, Wis	9- 1
10- 1	Buildings, Tacoma, Wash	8-25
10- 1	Hotel, Indianapolis, Ind	9- 1
10- 1*	Freight house, El Paso Tex. (Mfg. Pl.)	9- 1
10- 5	Court-house, Oneida, S. Dak	9-15
10- 7	Post-office, Macon, Mo	915
10-10*	Post-office, Macon, Mo	9-15
10-14	Hospital bldgs., New York	9-15
10-15	Quarters, Puget Sound, Wash	9-15
10-17*	Post-office, Canandaigua, N. Y.	9-15
11- 1	Plans, Toronto, Ont	6- 9
11- 5	Remodeling gas house, Mare Island, Cal	9-15

Water-Works.

Bids open.		Noted in issue of
9-16	Water-works, Russell, Kan	9- 8
9-17	Water mains, Newburg, Ohio	9- 1
9-17*	Pump, Sioux City, Iowa	9- 1
9-17	Pumping station, Sioux City, Ia.	9-15
9-20*	W.-wks. bonds, Belle Fourche, S. Dak	8-25
9-20*	Pumping engine, Detroit, Mich.	8-18
9-22*	Water-works, Haskell, Okla	9- 8
9-22	Filtration plant, Port Clinton, O.	9-15
9-22*	Hydrants, Wash., D. C	9-15
9-24	Distribution system, Orland, Cal.	9- 8
9-24	Water mains, Nottingham, Ohio	9- 8
9-24*	Reservoir site, etc., Ithaca, N. Y.	9- 8
9-26	Cisterns, Fort Howard, Md	9- 1
9-26	Wells, pumps, etc., Farmington, Minn.	9-15
9-27*	Water and sewer system, Thiells, N. Y.	9- 1
9-27*	Well, Depue, Ill	9- 8
9-28*	Reservoir site, etc., Ithaca, N.Y.	9-15
9-29*	Pumps, Evansville, Ind	8-18
9-30	Reservoir, etc., Yuma, Ariz	9-15
9-30	Water-works materials, Alto, Ga.	9-15

Sewers.

Bids open.		Noted in issue of
9-17	Sewers, Newburg, Ohio	9- 1
9-17	Sewers, Waupaca, Wis	9-15
9-17	Sewers, Meadville, Pa	9-15
9-19	Sewers, Oklahoma City, Okla	9-15
9-19	Sewers, Cloquet, Minn	9-15
9-19	Sewers, Columbus, Ind	9- 1
9-19	Sewer system, Brawley, Cal	8-25
9-19	Sediment tank, Trenton, Ont	9- 8
9-20*	Sewers, Summit, N. J	9-15
9-20	Sewers, Vinton, Iowa	9-15
9-20	Sewers, Briton, Iowa	9-15
9-21	Sewers, Oakland, Cal	9-15
9-22	Sewers, Spokane, Wash	9-15
9-22	Sewers, Newark, N. J	9-15
9-23	Sewers, Princeton, Ill	9-15
9-23	Sewer, Huntington, W. Va	9- 8
9-23	Sewers, Troy, N. Y	9-15
9-24	Sewers, Nottingham, Okla	9- 1
9-25	Sewers, Oberlin, Ohio	9-15
9-26*	Sewers, Atlantic City, N. J	9-15
9-27*	Sewers, Woodbury, N. J	9-15
10- 1	Sewers, West View, Pa	9-15
10- 1	Sewers, etc., West View, Pa	8-18
10- 1	Sewer bonds, Phoenix, Ariz	9- 8

Streets and Roads.

Bids open.		Noted in issue of
9-15	Paving, Newark, N. J	9-15
9-16	Paving, Wapakoneta, Ohio	9-15
9-16	Road, Fort Mason, Cal	9-15
9-16	Paving, Seattle, Wash	9- 1
9-16	Paving, Wapakoneta, Ohio	9- 1
9-16	Road construction, Harrisburg, Pa	8-25
9-17	Curb, etc., Muncie, Ind	9- 1
9-17	Gravel road, Frankfort, Ind	9- 8
9-17	Paving, New York	9- 8
9-17	Paving, Cairo, Ill	9-15
9-19	Street impvts., Kokomo, Ind	9-15
9-19	Paving, etc., San Francisco, Cal.	9-15
9-19	Pavement, Oklahoma City, Okla	9- 8
9-19	Paving, etc., Harrisburg, Pa	9- 8
9-19	Paving, Montgomery, Ala	9- 1
9-19	Paving, Lakewood, Ohio	8-25
9-20	Paving Marietta, Ohio	9-15
9-20	Paving, Allentown, Pa	9-15
9-20*	Sidewalks, Summit, N. J	9-15
9-20	Sidewalks, etc., Wash., D. C	9-15
9-20	Paving, New York, N. Y	9-15
9-21	Paving, East St. Louis, Ill	9-15
9-21	Grading, etc., New York, N. Y.	9-15
9-22	Grading, etc., Spokane, Wash	9-15
9-23	Repaving, etc., New York, N. Y.	9-15
9-23	Road repairs, Toledo, Ohio	9- 8
9-23	Pavement, New York, N. Y	9-15
9-23	Paving, Troy, N. Y	9-15
9-27	Road, Anderson, Ind	9-15
9-27	Grading, etc., Anderson, Ind	9-15
9-30	Resurfacing, Cincinnati, Ohio	9-15
10- 1	Paving, Boston, Mass	9-15
10- 1	Gravel road, Indianapolis, Ind	9-15
10- 5	Gravel road, Kokomo, Ind	9-15
10- 5	Roads, etc., Fort Dade, Fla	9-15
10-15*	Paving, Wilmington, N. C	9-15

Miscellaneous.

Bids open.		Noted in issue of
9-15	Channel, Delaware, Ohio	9-15
9-16	Ditch, Carroll, Iowa	9-15
9-16	Machinery, Panama (U. S. Poss.)	9- 1
9-16*	Lock, guidewalls, etc., Wheeling, W. Va.	8-18
9-16*	Lock and dam, Wheeling, W. Va.	8-18
9-16*	Lock machinery, Panama	7-21
9-16	Dredging, Montgomery, Ala	9- 1
9-17	Railroad system extensions, Boston, Mass	9- 8
9-17	Ditch, Red Lake Falls, Minn	9-15
9-19	Ice pier, Ottawa, Ont	9- 8
9-19	Towboats, Kansas City, Mo	9- 1
9-19*	Seawall, New Orleans, La	8-11
9-19*	Dredging, Galveston, Tex	8-25
9-19	Dredging, Norfolk, Va	8-25
9-19*	Oil-house, Fort Hancock, N J	8-25
9-19*	Riprap jetties, Portland, Me	8-25
9-20*	Dredging, Baltimore, Md	8-25
9-20	Dredging, Norfolk, Va	8-25
9-20	Garbage plant, El Paso, Tex. (Garbage),	9- 1
9-20	Gun turrets, Washington, D. C.	7-28
9-20	Pier, etc., New York	9-15
9-21	Pier, Brockville, Ont	9-15
9-21*	Dredging, Norfolk, Va	9- 1
9-22	Dredging, Norfolk, Va	9- 1
9-22*	Dredging, Washington, D. C	8-25
9-23*	Insulated cable, New London, Conn	8-25
9-23*	Metal shelving, Trenton, N. J	8-25
9-23*	Dredging, Mobile, Ala	8-25
9-23*	Riprap, Duluth, Minn	9- 1
9-23	Dredging breakwater, Cleveland, Ohio	9- 8
9-23	Vacuum cleaning system, Wilkes-Barre, Pa	9- 8
9-24	Mortuary, Brooklyn, N. Y	9- 8
9-24*	Dredging, Portland, Me	9- 1
9-24	Ditch, Columbus, Ohio	9-15
9-24	Levee, channel, Santa Ana, Cal	9-15
9-24	Ditch, Plymouth, Ind	9-15
9-24	Conduit, etc., Omaha, Neb	9-15
9-26*	Dam, Cincinnati, Ohio	9- 1
9-26*	Dredging, Boston, Mass	9- 1
9-26*	Breakwater, Portland, Me	9- 1
9-26	Rock, Detroit, Mich	9- 8
9-29	Dredging, Norfolk, Va	9-15
9-27*	Dredging, Galveston, Tex	9- 1
9-27*	Dipper dredges, Nashville, Tenn	9- 8
9-27*	Intake crib, etc., Louisville, Ky.	9-15
9-28	Wharf, walls, Hamilton, Ont	9-15
9-28	Clearing and filling, Aberdeen, Wash.	9- 1
9-29	Houses, Wheeling, W. Va	9- 1
9-29*	Dredging, Norfolk, Va	9- 1
9-29*	Dredging, Baltimore, Md	9- 1
9-29*	Dredging, Duluth, Minn	9- 8
9-30*	Dredging, Duluth, Minn	9- 8
9-30*	Dredging, New York	9-15
9-30*	Dredge machy., Montgomery, Ala.	9-15
10- 1*	Dredging, Savannah, Ga	9- 1
10- 1*	Dredging, Pike, Phila., Pa	9- 1
10- 3*	Dredging, New York	9- 8
10- 3	Breakwater, culvert, Shelbyville, Ind.	9-15
10- 4	Wharf, Lakeport, Ont	9-15
10- 4	Ditches, Angleton, Tex	9-15
10- 4	Breakwater, Goderich, Ont	9-15
10- 7*	Barges, flat boats, St. Louis, Mo.	9-15
10- 8*	Jetty, Galveston, Tex	9-15
10- 8	Storage tanks, Wash., D. C	9-15
10-10*	Dredging, Jacksonville, Fla	9-15
10-10*	Dredging, Charleston, S. C	9-15
10-10*	Dredging, Wilmington, N. C	9-15
10-14*	Dredging, Wilmington, N. C	9-15
10-12*	Dredging, etc., Chicago, Ill	9-15
10-15	Drainage ditch, levee, Pekin, Ill.	9- 8
10-20*	Subway system, etc., New York	9- 8
10-20*	Dredge, etc., Vicksburg, Miss	8-25
10-27	Collecting wks, Russia (Foreign)	9- 1
10-27*	Subway system, etc., New York	9- 8
10-31	Lighthouse, buoy steamer, Victoria, B. C	9- 8
10-31	Steamer, Victoria, B. C	9-15
11- 8	Torpedo boat destroyer, Washington, D. C	9- 8

Examinations.

Bids open.		Noted in issue of
9-21	Assistant in Wireles Telephony, Washington, D. C	9- 1
9-26	Examiner Wash., D. C	9- 1
10- 5	Inspector, Fort Crockett, Tex	8-25
10- 5	Xylotomist, Washington, D. C	8-25
10- 5	Electrical assistant, Wash, D. C.	9- 1
10-19	Clerk-dftsman, Wash., D. C	9-15
10-15	Foreman, Washington, D. C	9-15
10 5	Asst. Chem. Engr., Madison, Wis.	9-15
10-19	Chemist, Madison, Wis	9-15
10-19	Engineer, Madison, Wis	9-15
10-10	Chem. Engr., Madison, Wis	9-15

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

9-16*	Lock and dam, Wheeling, W. Va.	(S)	8-18
9-16*	Lock, guide walls, etc., Wheeling, W. Va	(S)	8-18
9-17	Railroad system extensions, Boston, Mass	(S)	9- 8
9-19	Pavement, Oklahoma City, Okla.	(S.)	9- 8
9-19*	Dredging, Galveston, Tex	((S.)	8-25
9-19	Dredging, Norfolk, Va	(S.)	8-25
9-19*	Riprap jetties, Portland, Me.	(S.)	8-25
9-20	Dredging, Norfolk, Va	(S.)	8-25
9-21*	Dredging, Norfolk, Va	(S)	9- 1
9-22	Dredging, Norfolk, Va	(S)	9- 1
9-23*	Dredging, Mobile, Ala	(S.)	8-25
9-24	Mortuary, Brooklyn, N. Y.	(S)	9- 8
9-26*	Dredging, Boston, Mass	(S.)	9- 8
9-27*	Dredging, Galveston, Tex	(S.)	9- 1
9-29*	Dredging, Baltimore, Md	(S)	9- 1
9-29	Dredging, Norfolk, Va	(S.)	9-15
10- 1	Paving, Boston, Mass	(S.)	9-15
10- 1*	Power plant, Annapolis, Md.	(S.)	8-25
10- 8	Storage tanks, Wash., D. C.	(S.)	9-15
10-15	Officers' quarters, Puget Sound, Wash.	(S.)	9-15
11- 5	Gas house remodeling, Mare Island, Cal	(S.)	9-15

CONTRACT PRICES.

CHICAGO, ILL.—Bids have been received by the Department of Public Works for repairing, lengthening and reconstructing the draw span of the 106th St. bridge over the Calumet River. The bidders are: (A) Rohnheld Construction Co., (B) The Kotler, Elliot Erection Co., (C) Gindele Bros Co., (D) G. W. Jackson, Inc., (E) John J. Gallery, (F) Strobel Steel Constructing Co. Bernard J. Mulloney is Comr.

The itemized bids are as follows:

RECONSTRUCTING DRAW SPAN, CHICAGO, ILL.

	(A)	(B)	(C)	(D)	(E)	(F)
Lengthening and reinforcing span	$8,625	$9,812	$10,500	$11,390	$12,500	$13,300
2,000 lbs. additional structural steel	0.07	0.04	0.075	0.05	0.09	0.05
2,000 lbs. additional steel castings	0.12	0.11	0.17	0.20	0.10	0.12
Totals	$9,005	$10,112	$10,990	$11,890	$12,880	$13,640

CHICAGO, ILL.—Bids have been received by the Department of Public Works for repaving and reconstructing the abutments, approaches and center pier protection of the 106th St. bridge over the Calumet River. The bidders are: (A) The Great Lakes Dock & Dredging Co., (B) The Fitzsimons & Connell Co. Bernard J. Mulloney is Comr.

The itemized bids are as follows:

CONSTRUCTING ABUTMENTS, CHICAGO, ILL.

	(A)	(B)
Removing West abutment and center pier	$1,265.00	$1,500.00
25,000 ft. B. M. oak	79.00	85.00
15,000 ft. B. M. yellow pine	69.00	75.00
35,000 ft. B. M. white pine	59.00	65.00
17,000 lin. ft. oak piles	0.18	0.20
16,500 lin. ft. driven piles	0.115	0.12
5,000 cu. yds. dredging	0.28	0.30
6,000 lbs. structural steel chains	0.05	0.045
Totals	$12,997	$14,175

EXAMINATIONS.

CLERK-DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 19-20, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Clerk-Draftsman in offices of Surveyors-General, Land Office Service, at salaries of about $4 a day or $1,200 a year. Both men and women will be admitted to this examination. Age limit, 18 years. Application form 1312.

FOREMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 15, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Foreman in connection with mine-rescue training at the stations of the Bureau of Mines located throughout the United States, at salaries ranging from $1,080 to $1,500 a year. Applicants must have reached their 25th but not their 50th birthday, on the date of the examination. Application form 1800. Applications must be filed prior to closing hour on Oct. 15.

ASSISTANT CHEMICAL ENGINEER.—Madison, Wis.—The U. S. Civil Service Commission announces an examination on Oct. 5, to secure eligibles from which to make certifications to fill a vacancy in the position of Assistant Chemical Engineer in Forest Products in the Forest Products Laboratory at Madison, at a salary ranging from $1,200 to $1,500 a year, and vacanies requiring similar qualifications as they may occur. Applicants must have reached their 25th, but not their 50th birthday, on the date of the examination. Application and examination form 1312. Applications must be filed prior to closing hour on Sept. 28.

CHEMIST. — Madison, Wis.—The U. S. Civil Service Commission announces an examination on Oct. 19, to secure eligibles from which to make certification to fill four vacancies in the position of Chemist in Forest Products in the Forest Products Laboratory at Madison, at salaries ranging from $1,600 to $2,500 a year and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancies by reinstatement, transfer, or promotion. Applicants must have reached their 25th, but not their 50th birthday, on the date of the examination. Application and examination form 1312. Applications must be filed prior to closing hour on Oct. 11.

ENGINEER.—Madison, Wis.—The U. S. Civil Service Commission announces an examination on Oct. 19, to secure eligibles from which to make certifications to fill six vacancies in the position of Engineer in Forest Products in the Forest Products Laboratory at Madison, at salaries ranging from $1,600 to $2,500 a year, and vacancies requiring similar qualifications, as they may occur, unless it shall be decided in the interest of the service to fill the vacancies by reinstatement, transfer, or promotion. Applicants must have reached their 20th, but not their 50th birthday, on the date of the examiation. Application and examination form 1312. Applications must be filed prior to closing hour on Oct. 11.

CHEMICAL ENGINEER.—Madison, Wis.—The U. S. Civil Service Commission announces an examination on Oct. 10, to secure eligibles from which to make certifications to fill two vacancies in the position of Chemical Engineer in Forest Products in the Forest Products Laboratory at Madison, Wis., at salaries ranging from $1,600 to $2,500 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfor, or promotion. Applicants must have reached their 20th, but not their 50th birthday, on the date of the examination. Application and examination form 1312. Applications must be filed prior to closing hour on Oct. 11.

INDUSTRIAL NOTES.

THE SAFETY CAR HEATING & LIGHTING CO., 2 Rector St., New York City, announces that Mr. John J. Malley has been appointed General Purchasing and Supply Agent.

THE RAYMOND CONCRETE PILE CO., New York City, has opened a branch office, Room 226, Worcester Bldg., Portland, Ore. This office will be in charge of Mr. Gordon B. Raymond.

THE MAC ARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York City, has made arrangements with the Imperial Peking-Kalgan R. R. and its extensions through Arnoldkorberg Co., of China, and Mr. Yow, Chief Engineer of the road, whereby their pedestal concrete piles will be used under various structures of the railroad.

THE HYDREX FELT & ENGINEERING CO., 120 Liberty St., New York, announces that Mr. Herbert F. L. Allen has been appointed special representative for the company, with offices in the Colorado Bldg., Washington, D. C.

THE CEMENT SHOW, which will be held in Madison Square Garden, New York City, Dec. 14 to 20, will have among other attractive features a display of Mr. Thomas A. Edison's poured cement house together with the forms and molds.

THE SUCCESSFUL ADOPTION of gasoline motors to many forms of engineering machinery has resulted in a demand for a dump cart in connection with a gasoline motor. A dump cart or truck has recently been made by Mack Bros., makers of motor vehicles, 30 Church St., New York, for M. H. Backman & Co., East Allentown, Pa. This is a three-ton sand truck which dumps in the rear. The same firm make a 5-ton rear dumping garbage truck and a center dumping coal and coke truck of like capacity.

THE U. S. STEEL CORPORATION'S report of unfilled orders on hand Sept. 1 was issued Sept. 10, and showed a decrease of 434,000 tons compared with the previous month. The figures were 3,537,138 tons. This is the smallest total since Sept. 30, 1908. In the following list is given the tonnage reported this year as well as at the nearest corresponding date in recent years:

Date.	Unfilled Tonnage.
Aug. 31, 1910	3,537,128
July 31, 1910	3,970,931
June 30, 1910	4,257,79[illegible]
March 31, 1910	5,402,514
Sept. 30, 1909	4,796,833
Sept. 30, 1908	3,421,977
Sept. 30, 1907	6,425,008
Sept. 30, 1906	7,936,884
Sept. 30, 1905	5,865,377
Sept. 30, 1904	3,027,436
Sept. 30, 1903	3,278,742
Sept. 30, 1902	4,843,007

Situations Wanted

DRAFTSMAN — Young man, experienced structural steel, conveying machinery, etc., desires position; New York location. Address "P. B. 11," Engineering News, New York. 11-2t

TECHNICAL GRADUATE (21) wishes position in drafting room, with chance for advancement; best references. Address "L. A. 9," Engineering News, New York. 11-1t

Building Superintendent

Capable of taking entire charge of erection of factory buildings, in standard and mill and reinforced concrete construction. State experience and salary expected. Address B. S., 794 Broad St., Newark, N. J. 11-1t

Superintendents, Misc., etc.

ADVERTISER, 35, desires executive position. Engineer and machine designer; familiar with company management; skilled in machine development, product improvement, patent work, and with methods of patent-based industries. Address "O. B. 11," Engineering News, New York. 11-2t

BY YOUNG MAN with technical education as assistant superintendent of construction and estimator, three years' experience; will be open for position Oct. 15. Address "Q. 11," Engineering News, 1636 Monadnock Block, Chicago. 11-1t

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 128.

HIGHWAY IMPROVEMENT.

Scarsdale, N. Y.

Notice is hereby given that sealed proposals for repairing or constructing the following highways or portions of highways in the Town of Scarsdale; first group, Sherbrook Road, Heathcote Road, Griffin Avenue and Fenimore Road, a total length of 1.53 miles; second group: Grand Boulevard, Brambach Ave., Evart Street, a total length of eighty-six hundredths (.86) of a mile, the work to be done to include grading, draining and macadamizing with bituminous macadam or repairing and resurfacing with said material the said several highways according to the specifications, will be received by the Town Clerk in the Town of Scarsdale for the Town Board of the said Town, at the Town Hall in the said Town until eight o'clock P. M., the 26th day of September, 1910; said work to be done in strict accordance with Specifications therefor, prepared by E. J. Wulff, C. E., and adopted by the Town Board of the Town of Scarsdale and now on file in the office of the Clerk of said Town.

Bids for this work must be in writing signed by the bidder or bidders, and must be accompanied by a bank draft or certified check payable at sight to the order of the Supervisor of the Town of Scarsdale in the amount of 5 per cent. of the amount of proposal as a guarantee that the bidder will enter into a contract if the work is awarded to him, and in case he fails to do so within the specified time, the same shall be forfeited to and retained by the said Town of Scarsdale as liquidated damages for such refusal and not as a penalty. Said draft or check will be returned to the bidder as soon as he has entered into a contract with the Town and furnished satisfactory bonds as required. Checks or drafts of the unsuccessful bidders will be returned immediately after the contract has been awarded. Proposals must be on the official form prescribed by, attached to and forming part of the specifications for this work and which may be procured from the said Town Clerk, at his residence on Anderson Street, Arthur Manor, in said town, and the price bid shall be to cover all said work and expenses of every kind incidental to the carrying out of the plans, profiles, drawings and specifications therefor. Proposals may also be made for other methods of bituminous macadam than the one specified.

The Town Board reserves the right to reject any and all bids or proposals and to accept whatever bid or proposal may, in its judgment, be most favorable to the said Town of Scarsdale.

FRANK SIBLEY, Town Clerk.
Tel. 48 L Scarsdale.
Scarsdale N. Y., dated Sept. 6th, 1910.

CEMENTING SETTLING BASIN.

OFFICE OF THE COMMISSIONERS OF WATER WORKS IN THE CITY OF ERIE.

Erie, Pa., Sept. 13, 1910.

Sealed proposals, addressed to the Commissioners of Water Works, in the City of Erie, Erie, Penna., and endorsed "Proposals for Cementing Settling Basin No. 1," will be received at the office of the Commissioners until two o'clock P. M., Wednesday, September 28th, 1910, and then publicly opened.

The work will consist in grading and cementing Settling Basin No. 1 on Presque Isle Peninsulas. The size of the basin is 620′ × 430′ × 14′ deep.

Each proposal must be made on a printed form, which, together with the specifications, will be furnished upon application.

Each bidder must send with his proposal a certified check or certificate of deposit of some National Bank, made payable to the Commissioners, for a sum equal to 3% of the amount of his proposal.

The Commissioners reserve the right to reject any or all proposals.

GEORGE C. GENSHEIMER,
Secretary.

SEWER AND PAVI

VILLAGE OF BRONXVILLE, ST-
CHESTER COUNTY, N.

Sealed proposals will be received by the Clerk of the Village of Bronxville, N. Y., until 8 o'clock P. M., ber 27th, 1910 for furnishing all and material and building an eight-i wer on Palmer Avenue, starting a 187 feet westerly from Front Ave and running westerly along Palmer nue about 477 feet to the Bronx Valle wer, together with all necessary flu ks, manholes and other appurtena

Proposals should be addressed age Clerk of the Village of Br lle, Bronxville, N. Y., Sewer Propos

Sealed proposals will be rece by the Clerk of the Village of Bronxville, N. Y., until 8 o'clock P. M., September 27th, 1910, for furnishing labor a material for the grading, curbing an paving of Palmer Avenue in said Village, and that portion of Depot Square ying west of the right-of-way of the New York Central and Hudson River Railroad Company.

Proposals should be addressed Village Clerk of the Village of Bronxville, Bronxville, N. Y., Street Paving Proposals."

Each of the above mentioned proposals must be accompanied by a certified check for ten per cent. of the amount of the proposal, to be forfeited to the Village of Bronxville as liquidated damages and not as a penalty, in case a person submitting a proposal shall refuse to enter into a contract in accordance with his proposal. Said check shall be returned at once to all but the successful bidder, on the letting of the contract, and shall be returned to the successful bidder with his first monthly payment.

The Village reserves the right to reject any or all proposals and to contract with other than the lowest bidder.

Proposal blanks, plans and specifications may be obtained from Rogers and Latimer, Civil Engineers, Tuckahoe, N. Y., and Nos. 5-7 East 42d Street, New York City, N. Y.

A deposit of $10 will be required for plans and specifications, which will be returned upon the return of the said plans and specifications.

Dated, Bronxville, N. Y., September 13th, 1910.

FRANK DINSMORE,
Clerk of the Village of Bronxville.

U. S. ENGINEER OFFICE, Chicago, Ill., September 12, 1910.—Sealed proposals for dredging and rock excavation in Chicago River, Ill., will be received here until 10 a. m., October 12, 1910, and then publicly opened. Information on application. CHAS. S. BROMWELL, Major, Engineers.

BRIDGE.

Ardmore, Pa., Sept. 13, 1910.

Sealed proposals, endorsed bids for bridge, and addressed to the undersigned at the office of the Commissioners of Lower Merion Township, Ardmore, Pa., will be received until 5 P. M., Sept. 28, 1910, for the construction of a bridge over the Pennsylvania Railroad Tracks at Union Ave., Bala, Pa. Plans and specifications may be seen at the above office.

Each proposal must be accompanied by a certified check of One Thousand Dollars ($1,000.00), made payable to the order of the Treasurer of Lower Merion Township, to be forfeited to the Township as liquidated damages in case of failure of bidder to enter into contract for the execution of the work and to furnish a satisfactory surety bond of (50) per cent. of the contract price for the faithful performance of the work. The certified check to be returned to the bidder as soon as satisfactory contract is executed and to the unsuccessful bidder when the award of contract is made.

The Commissioners reserve the right to reject any or all bids.

J. HOWARD SUPPL
Chairman Highway Committee.
W. A. McINTYRE,
Engineer.

"WANT"

Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cents a word for "Situations Open" and "Miscellaneous Wants." Read them weekly—they will help yo